ACHSSTP-000C(374)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla, *etc.*	16,20,49, 50,70, *etc.*	Var	1	24

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

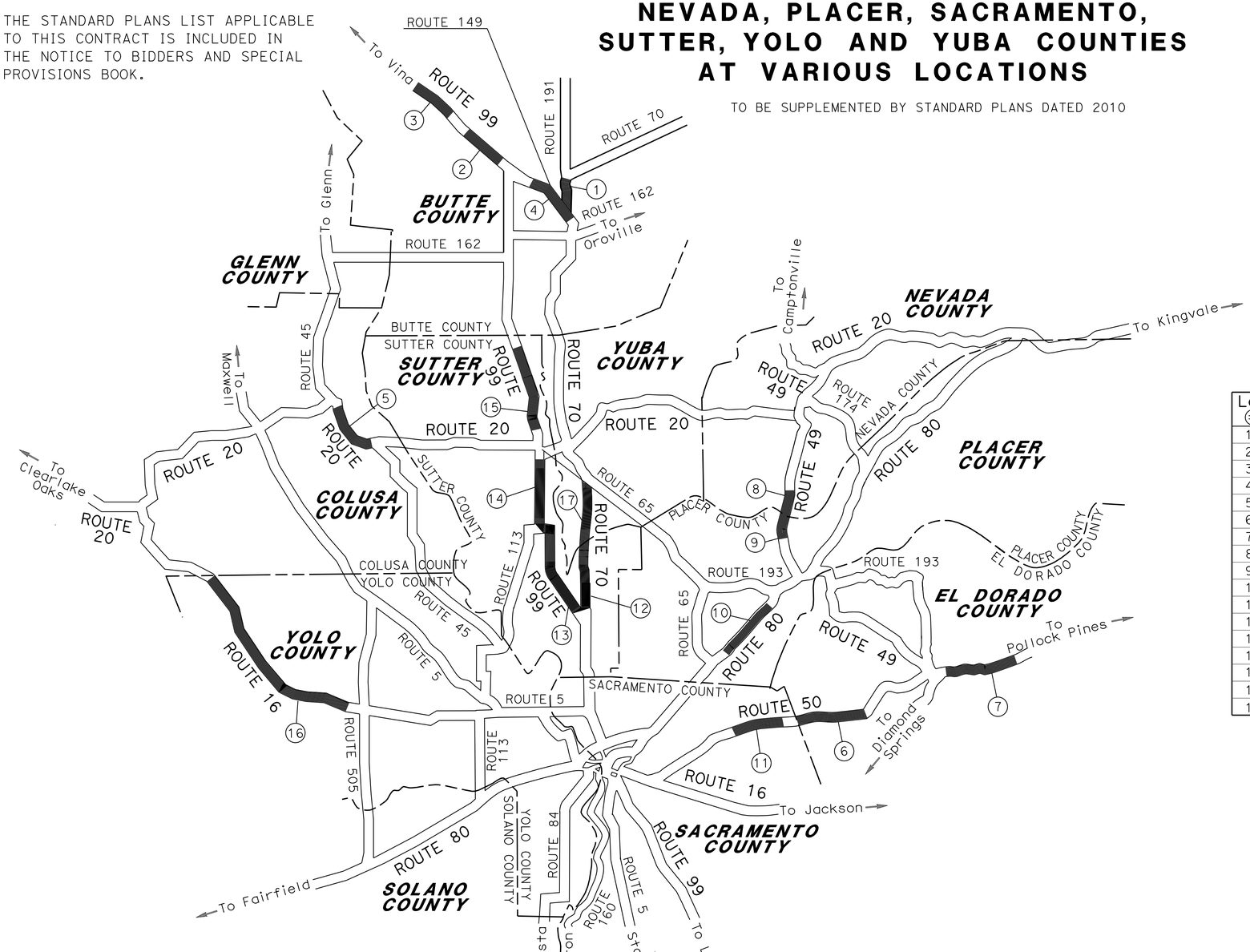
IN BUTTE, COLUSA, EL DORADO, NEVADA, PLACER, SACRAMENTO, SUTTER, YOLO AND YUBA COUNTIES AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-7	CONSTRUCTION DETAILS
8-9	CONSTRUCTION AREA SIGNS
10	PAVEMENT DELINEATION QUANTITIES
11-13	SUMMARY OF QUANTITIES
14-24	REVISED STANDARD PLANS

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.



LOCATION MAP

LOCATIONS OF CONSTRUCTION

Loc #	Co	Rte	PM RANGE	DESCRIPTION
1	But	70	17.0 TO 22.0	OROVILLE TO BUT 191
2	But	99	21.3 TO 31.3	DRY CREEK Rd TO TWENTIETH St
3	But	99	R37.2 TO T37.7	MUD CREEK Br TO GARNER LANE
4	But	149	0.0 TO R5.0	BUT 70 TO JUNCTION BUT 99
5	Col	20	35.0 TO 36.5	NIAGARA AVENUE TO Jct COL 45
6	ED	50	0.0 TO R3.5	SAC Co LINE TO BASS LAKE Rd INTERCHANGE
7	ED	50	19.3 TO 24.0	SCHNELL SCHOOL Rd TO CAMINO Dr
8	Nev	49	0.0 TO 2.2	PLACER Co LINE TO WOLF COMBIE Rd
9	Pla	49	7.4 TO 11.4	DRY CREEK Rd TO BEAR RIVER Br
10	Pla	80	4.2 TO 14.0	W OF ROCKLIN Rd TO E OF NEWCASTLE Rd
11	Sac	50	12.8 TO 23.1	SUNRISE INTERCHANGE TO ED Co LINE
12	Sut	70	0.3 TO 8.1	S OF RIEGO Rd TO BEAR Riv Br
13	Sut	99	8.4 TO 13.6	AFTER Jct SUT 70 TO SACRAMENTO Ave
14	Sut	99	13.6 TO 26.1	SACRAMENTO Ave TO BARRY Rd
15	Sut	99	R30.7 TO T35.0	Jct SUT 20 TO S OF LOMO CROSSING
16	Yol	16	19.5 TO 31.5	E OF BROOKS Rd TO S OF YOL 505
17	Yub	70	0.1 TO 9.4	BEAR Riv Br TO N OF YUB 65

Dennis L. Corcoran 5-12-14
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER DENNIS CORCORAN No. 59438 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA

May 27, 2014
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

CONTRACT No.	03-3F7704
PROJECT ID	0313000166

PROJECT MANAGER NAJ DAKAK
DESIGN ENGINEER MIKE HAGEN

LAST REVISION 02-20-14 DATE PLOTTED => 13-MAY-2014 TIME PLOTTED => 13:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col.ED Nev,Pla,etc.	16,20,49, 50,70,etc.	Var	2	24

Dennis G. Corcoran 5-12-14
REGISTERED CIVIL ENGINEER DATE

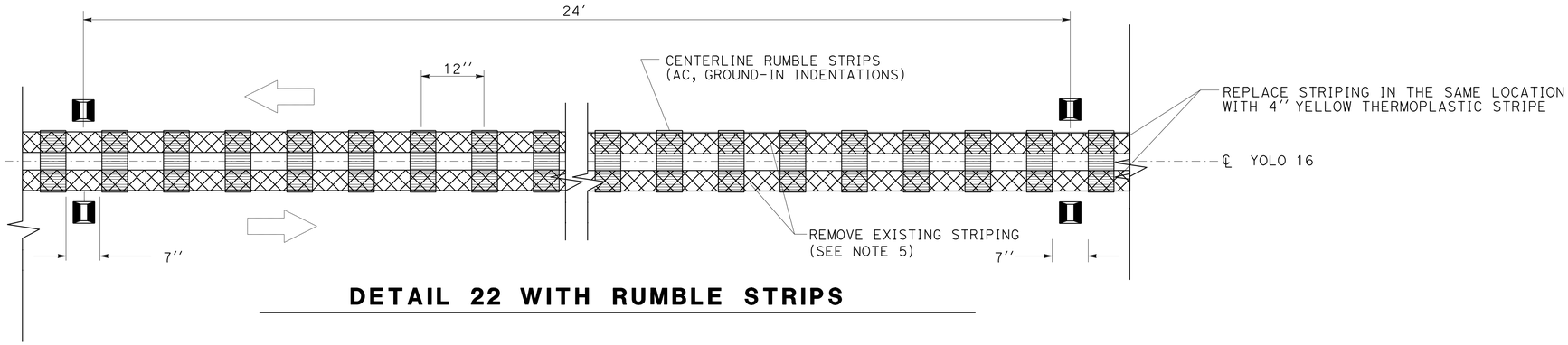
5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DENNIS CORCORAN
No. 59438
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

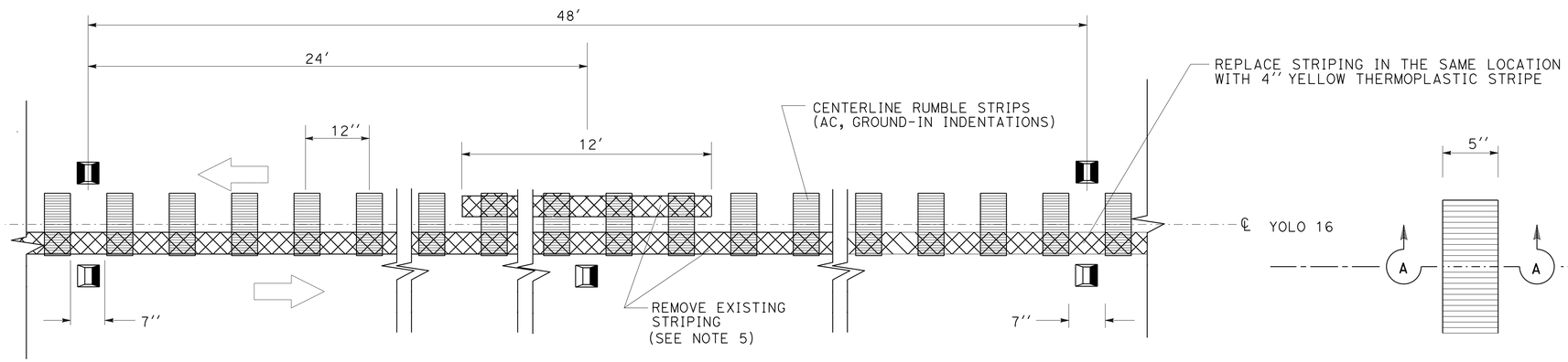
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

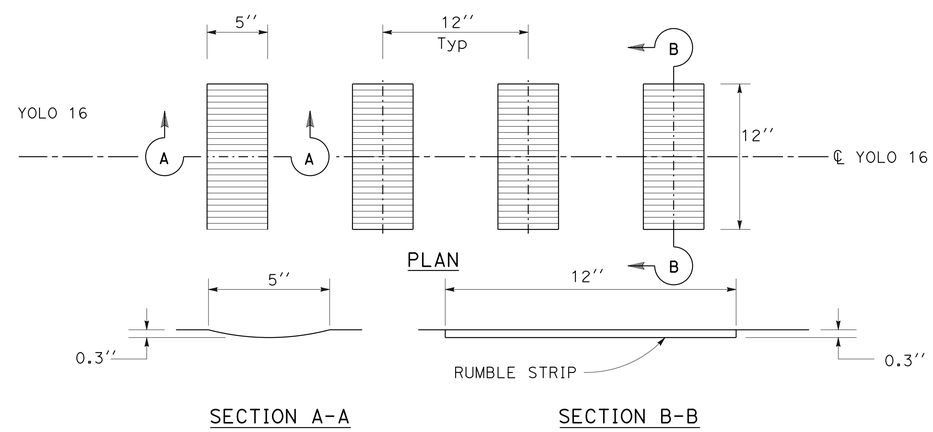
1. CENTERLINE RUMBLE STRIPS AS SHOWN ON THE PLANS WILL CONTINUE THROUGH LOCATIONS WITH PRIVATE DRIVEWAYS UNLESS OTHERWISE NOTED ON THE PLANS. SEE SHEET C-3 FOR INTERSECTION DETAILS.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
3. CENTERLINE RUMBLE STRIP MUST BE CONSTRUCTED PRIOR TO INSTALLING FINAL TRAFFIC STRIPES.
4. FOR CENTERLINE RUMBLE STRIP (AC, GROUND-IN INDENTATIONS) DETAILS, SEE BELOW.
5. REMOVE EXISTING STRIPING AT LOCATION 16 ONLY.



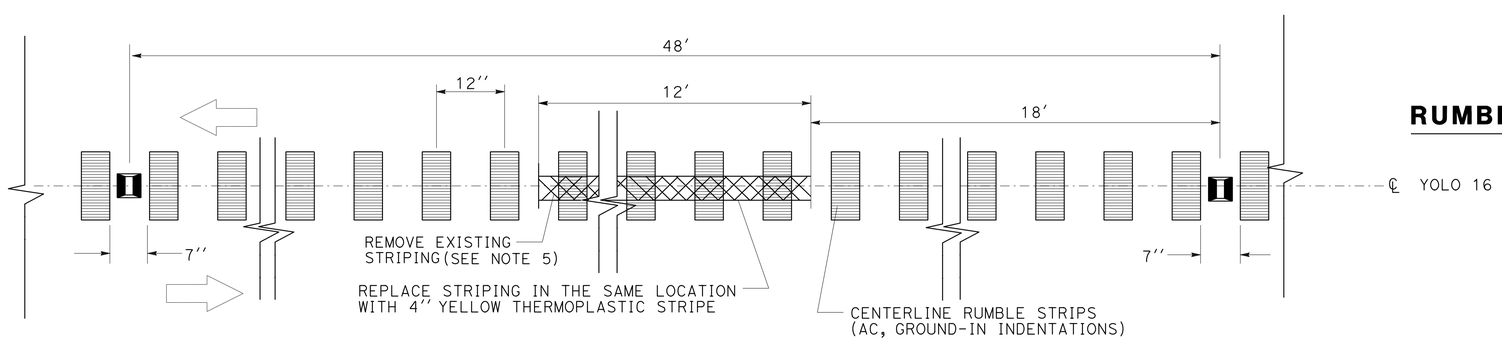
DETAIL 22 WITH RUMBLE STRIPS



DETAIL 19 WITH RUMBLE STRIPS



RUMBLE STRIP DETAILS GROUND-IN INDENTATIONS CENTERLINE



DETAIL 6 WITH RUMBLE STRIPS

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC SAFETY

REVISED BY	
DATE REVISED	
DENNIS CORCORAN	
MIKE HAGEN	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	MIKE HAGEN

LAST REVISION 05-12-14 | DATE PLOTTED => 12-MAY-2014 | TIME PLOTTED => 15:05

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla,etc.	16,20,49 50,70,etc.	Var	3	24

Dennis G. Corcoran 5-12-14
REGISTERED CIVIL ENGINEER DATE

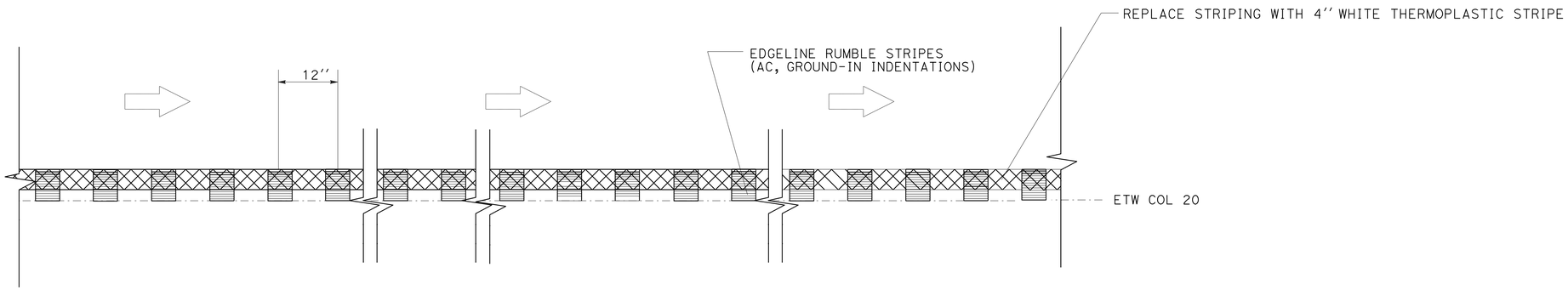
5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DENNIS CORCORAN
No. 59438
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

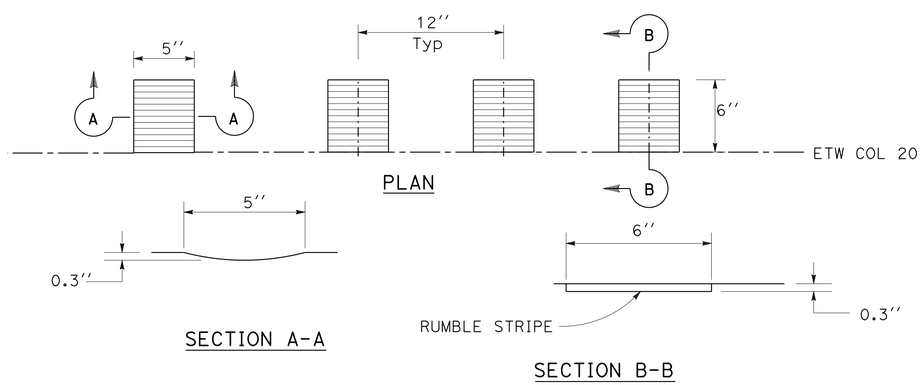
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

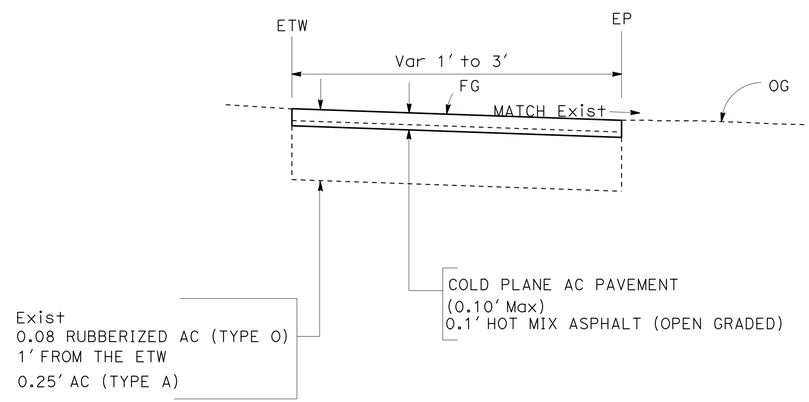
1. SHOULDER RUMBLE STRIPES AS SHOWN ON THE PLANS WILL CONTINUE THROUGH LOCATIONS WITH PRIVATE DRIVEWAYS UNLESS OTHERWISE NOTED ON THE PLANS.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
3. SHOULDER RUMBLE STRIPES MUST BE CONSTRUCTED PRIOR TO INSTALLING FINAL TRAFFIC STRIPES.
4. FOR SHOULDER RUMBLE STRIPE (AC, GROUND-IN INDENTATIONS) DETAILS, SEE BELOW.



DETAIL 27B WITH RUMBLE STRIPES



RUMBLE STRIPE DETAILS GROUND-IN INDENTATIONS
EDGELINE



LOCATION 5 TYPICAL CROSS SECTION

CONSTRUCTION DETAILS
NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC SAFETY

FUNCTIONAL SUPERVISOR: MIKE HAGEN
CALCULATED-DESIGNED BY: DENNIS CORCORAN
CHECKED BY: MIKE HAGEN
REVISED BY
DATE REVISED

LAST REVISION 05-12-14 | DATE PLOTTED => 12-MAY-2014 | TIME PLOTTED => 15:05

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla,etc.	16,20,49, 50,70, etc.	Var	4	24

Dennis G. Corcoran 5-12-14
REGISTERED CIVIL ENGINEER DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DENNIS CORCORAN
No. 59438
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

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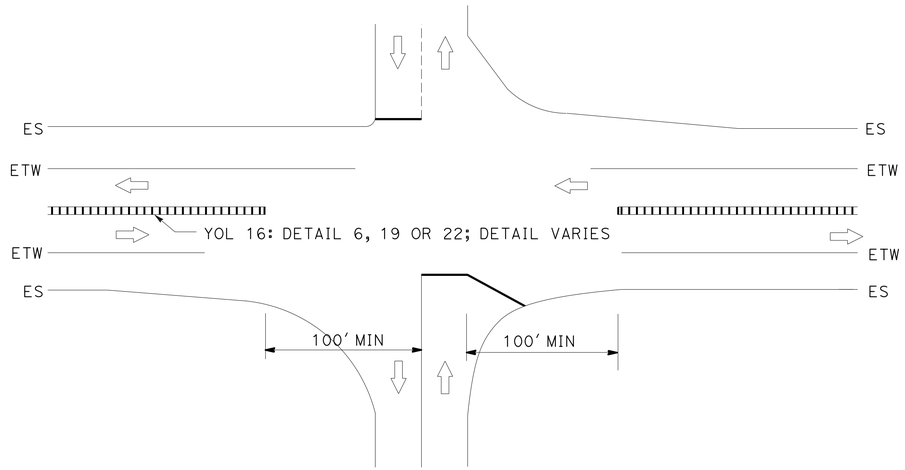
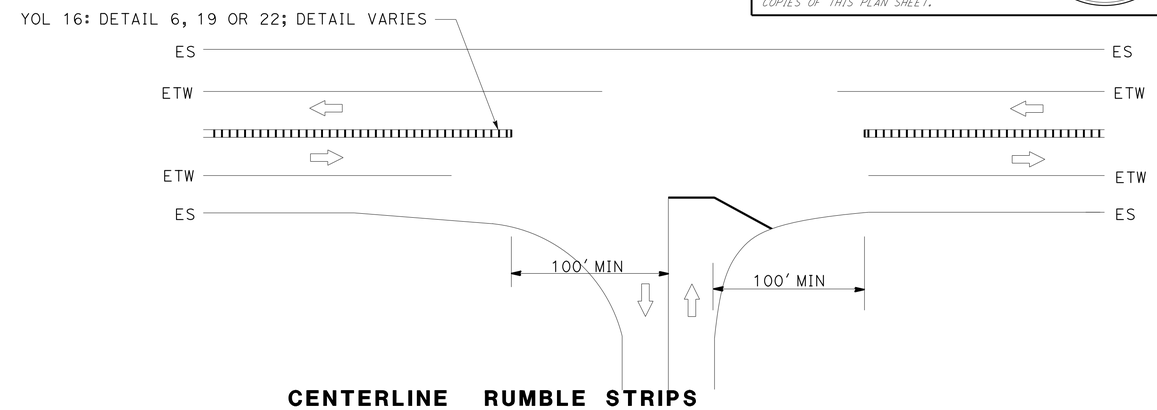
NOTES:

1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
2. ALL LOCATIONS LISTED ON THIS PLAN SHEET FOR YOL 16 WILL USE CENTERLINE RUMBLE STRIP DETAILS BASED ON DETAIL 6, 19 OR 22, SHOWN ON SHEET C-1.
3. CENTERLINE RUMBLE STRIP MUST BE CONSTRUCTED PRIOR TO INSTALLING FINAL TRAFFIC STRIPES.



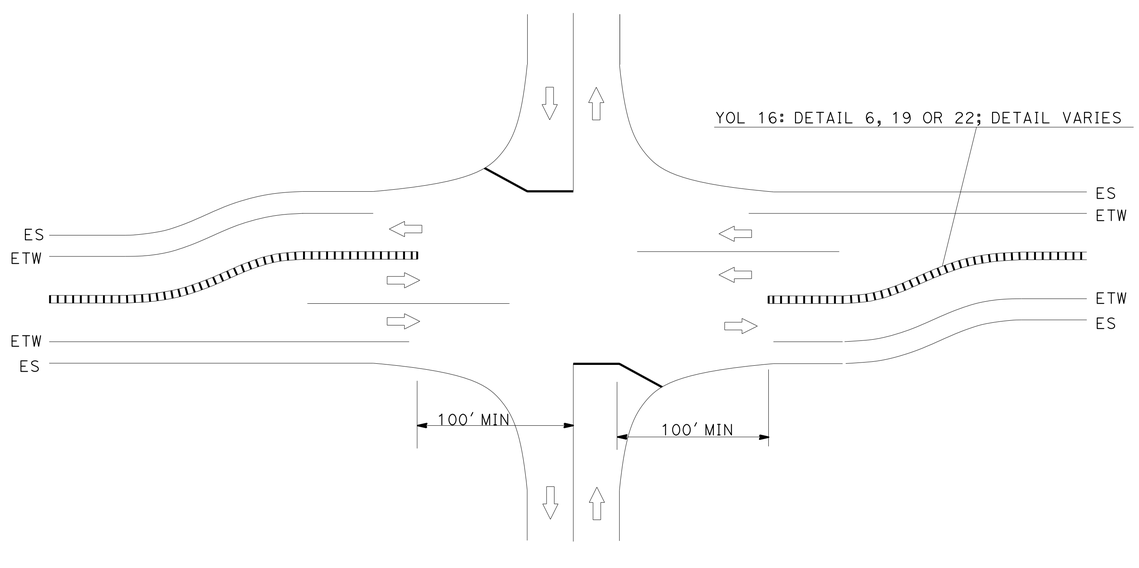
CENTERLINE RUMBLE STRIPS AT GRADE INTERSECTION APPROACH:

LOCATION 16: COUNTY ROAD 89 (PM 31.02)



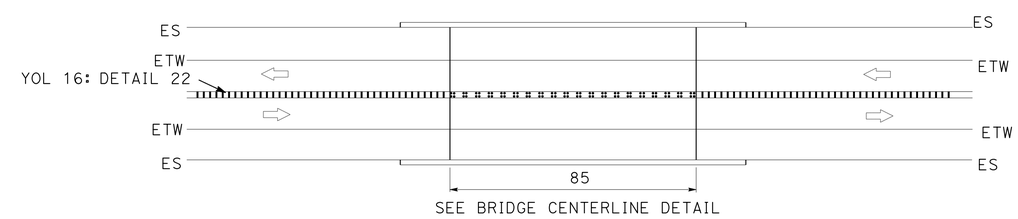
CENTERLINE RUMBLE STRIPS AT GRADE INTERSECTION APPROACH:

LOCATION 16: BROOKS ROAD (PM 19.50)
LOCATION 16: COUNTY ROAD 78A (PM 20.17)
LOCATION 16: COUNTY ROAD 79 (PM 20.86)
LOCATION 16: COUNTY ROAD 80 (PM 21.38)
LOCATION 16: COUNTY ROAD 82 (PM 22.59)
LOCATION 16: COUNTY ROAD 82B (PM 23.52)
LOCATION 16: COUNTY ROAD 21A (PM 28.27)
LOCATION 16: COUNTY ROAD 86A (PM 28.49)
LOCATION 16: TUFF STREET (PM 30.73)



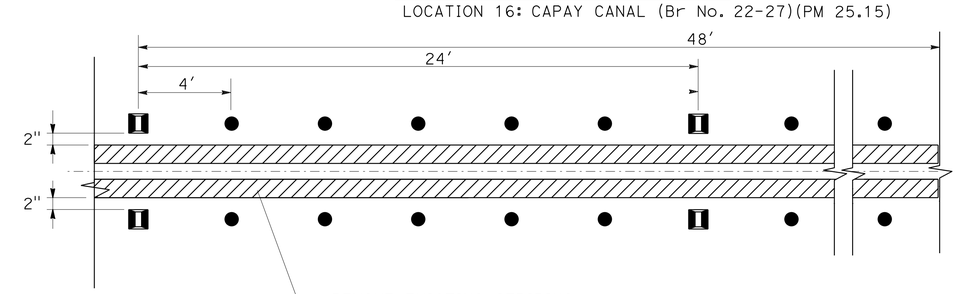
CENTERLINE RUMBLE STRIPS AT GRADE INTERSECTION WITH DUAL TURN POCKETS:

LOCATION 16: COUNTY ROAD 85B (PM 26.37)



CENTERLINE RUMBLE STRIPS AT BRIDGE APPROACH:

LOCATION 16: CAPAY CANAL (Br No. 22-27)(PM 25.15)



REMOVE EXISTING STRIPING.
REPLACE STRIPING IN THE SAME LOCATION
WITH 4'' YELLOW THERMOPLASTIC STRIPE

BRIDGE CENTERLINE DETAIL

CONSTRUCTION DETAILS

NO SCALE

C-3

REVISED BY | DATE REVISED
DENNIS CORCORAN | MIKE HAGEN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | MIKE HAGEN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC SAFETY

LAST REVISION 05-12-14 | DATE PLOTTED => 12-MAY-2014 | TIME PLOTTED => 15:05

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla,*etc.*	16,20,49, 50,70,*etc.*	Var	5	24

Dennis G. Corcoran 5-12-14
REGISTERED CIVIL ENGINEER DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DENNIS CORCORAN
No. 59438
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

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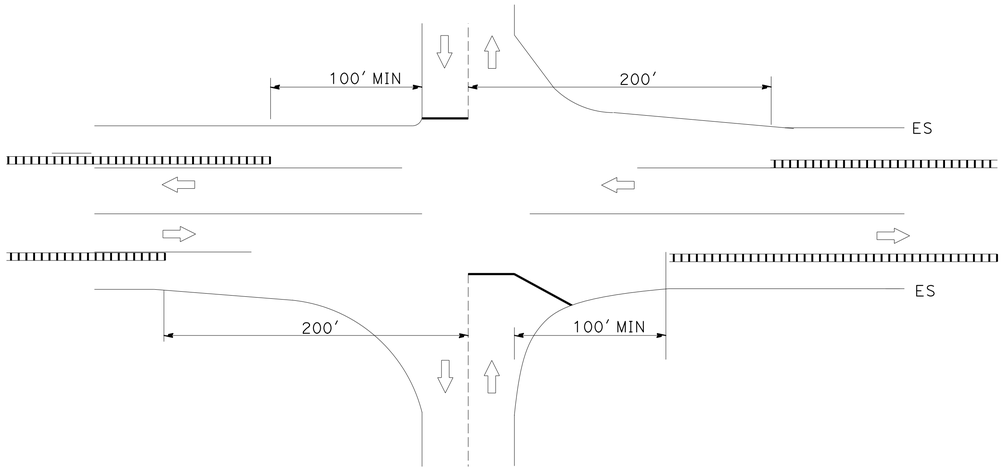
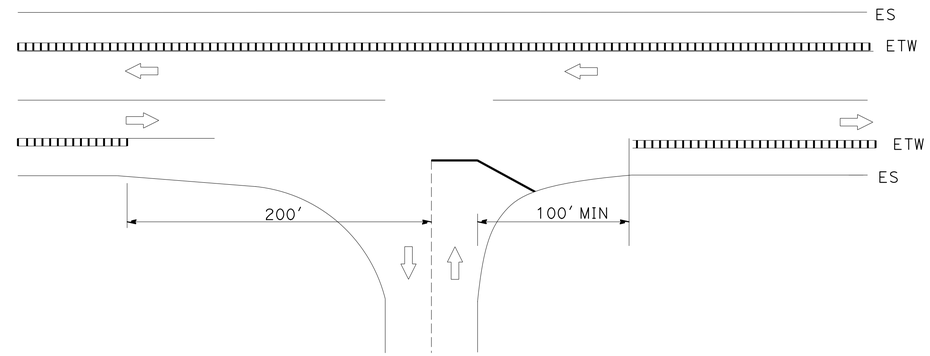
NOTES:

1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
2. FOR GROUND-IN SHOULDER RUMBLE STRIP DETAIL SEE 2010 STANDARD PLAN A40B.
3. SEE SHEET Q-3 FOR BRIDGE DECKS TO BE AVOIDED.
4. IF THE SHOULDER GROUND-IN RUMBLE STRIPS DO NOT FIT ON THE EXISTING OGAC THEN THEY SHOULD BE PLACED ON THE ADJACENT DENSE GRADE ASPHALT.



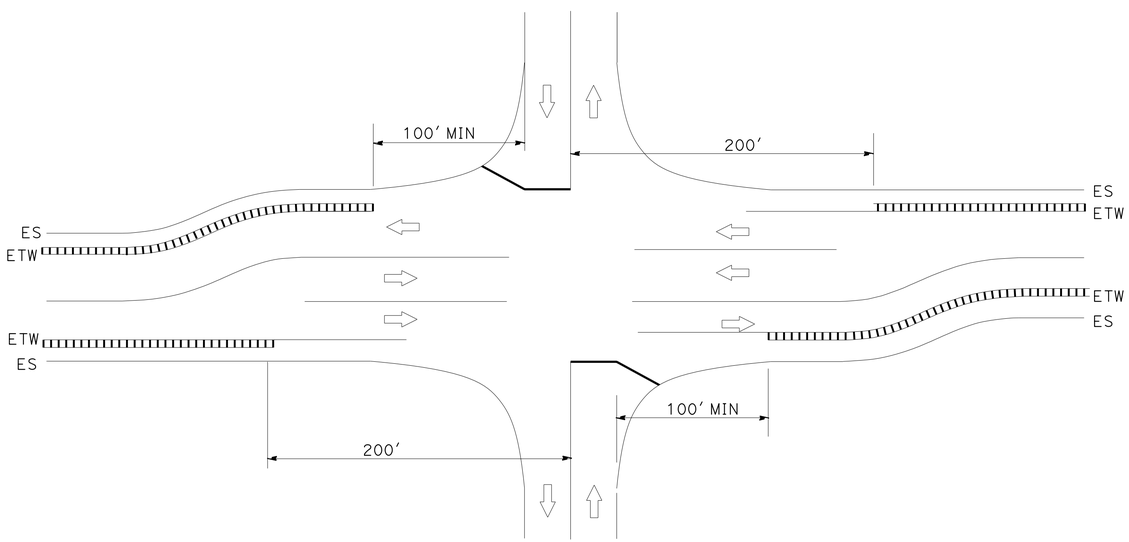
SHOULDER RUMBLE STRIPS AT GRADE INTERSECTION APPROACH:

LOCATION 1: TABLE MOUNTAIN BLVD (PM 21.79)
LOCATION 7: CAMINO HEIGHTS DRIVE (PM 23.24)
LOCATION 8: OAKHURST/LINNET LANE (PM 0.18)
LOCATION 8: COUNTY ROAD 144D (PM 1.01)
LOCATION 8: SHARON JACK ROAD (PM 1.30)
LOCATION 8: STREETER ROAD (PM 1.70)
LOCATION 8: WOLF COMBIE ROAD (PM 2.19)
LOCATION 9: RIO OSO ROAD (PM 11.20)



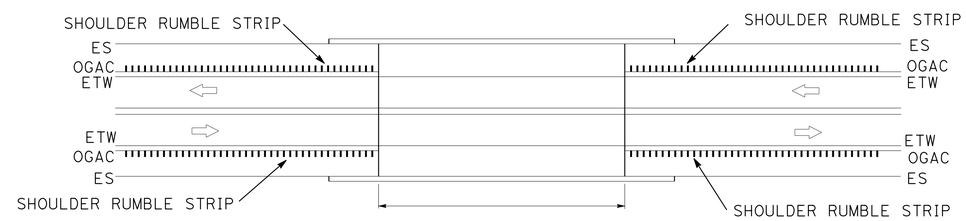
SHOULDER RUMBLE STRIPS AT GRADE T-INTERSECTION APPROACH:

LOCATION 2: ESTATES DRIVE (PM 28.36)
LOCATION 4: SHIPPE ROAD (PM R 2.55)
LOCATION 7: CAMINO HEIGHTS ROAD (PM 23.24)
LOCATION 8: RINCON WAY (PM 0.46)
LOCATION 8: GAUTIER ROAD (PM 0.68)
LOCATION 8: WOODBRIDGE COURT (PM 1.93)
LOCATION 9: MICHAEL LANE (PM 7.80)
LOCATION 9: JOEGAR ROAD (PM 7.99)
LOCATION 9: PARADISE LANE (PM 8.30)
LOCATION 9: POPPEY LANE (PM 8.55)
LOCATION 9: CRAMER ROAD (PM 9.48)
LOCATION 14: OAK AVENUE (PM 15.17)
LOCATION 14: CYPRESS AVENUE (PM 15.67)
LOCATION 14: MARCUSE AVENUE (PM 16.19)
LOCATION 14: CENTRAL AVENUE (PM 16.88)
LOCATION 14: HUTCHISON ROAD (PM 23.60)
LOCATION 14: MESSICK ROAD (PM 24.39)
LOCATION 14: OSWALD ROAD (PM 25.62)
LOCATION 14: BARRY ROAD (PM 26.12)



SHOULDER RUMBLE STRIPS AT GRADE INTERSECTION WITH DUAL TURN POCKETS:

LOCATION 7: PAUL BUNYON ROAD (PM 22.84)
LOCATION 7: GOLDEN CHAIN DRIVE (PM 23.40)
LOCATION 9: LORENSON ROAD (PM 8.97)
LOCATION 9: LONE STAR ROAD (PM 10.28)
LOCATION 12: KEMPTON ROAD (PM 7.05)
LOCATION 13: STRIPLIN ROAD (PM 9.24)
LOCATION 13: POWER LINE ROAD (PM 10.81)
LOCATION 14: WILSON ROAD (PM 17.71)
LOCATION 14: O'BANION ROAD (PM 22.60)
LOCATION 17: FEATHER RIVER BLVD (PM 0.35)



SHOULDER RUMBLE STRIPS AT BRIDGE APPROACHES

SHEET Q-3 LISTS ALL THE BRIDGE LOCATIONS, NAMES, NUMBERS AND LENGTHS OF EACH BRIDGE DECK

CONSTRUCTION DETAILS

NO SCALE

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC SAFETY
FUNCTIONAL SUPERVISOR: MIKE HAGEN
CALCULATED-DESIGNED BY: DENNIS CORCORAN
CHECKED BY: MIKE HAGEN
REVISED BY
DATE REVISED

LAST REVISION 05-12-14
DATE PLOTTED => 12-MAY-2014
TIME PLOTTED => 15:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla,etc.	16,20,49, 50,70,etc.	Var	6	24

Dennis G. Corcoran 5-12-14
REGISTERED CIVIL ENGINEER DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DENNIS CORCORAN
No. 59438
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

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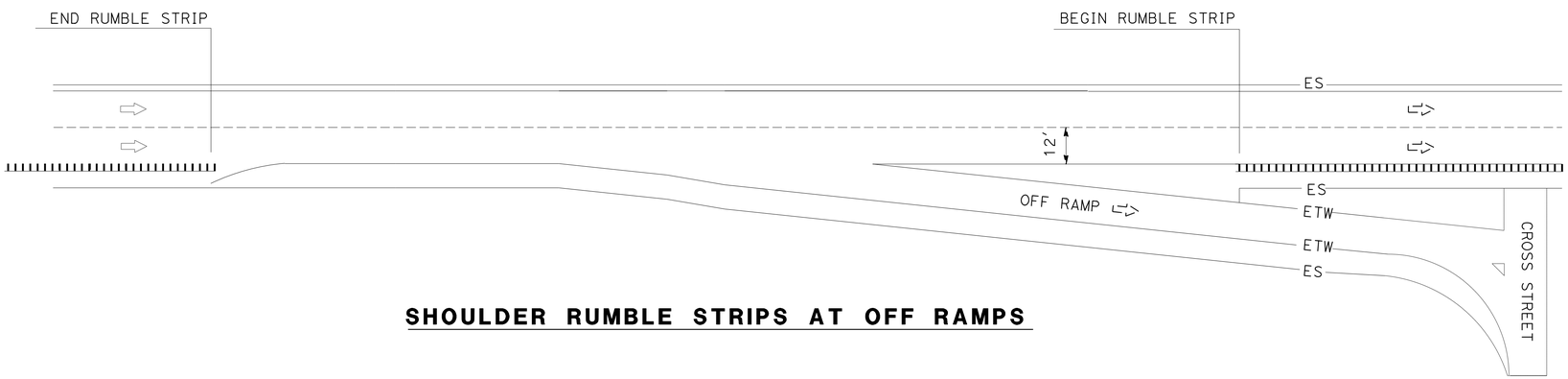
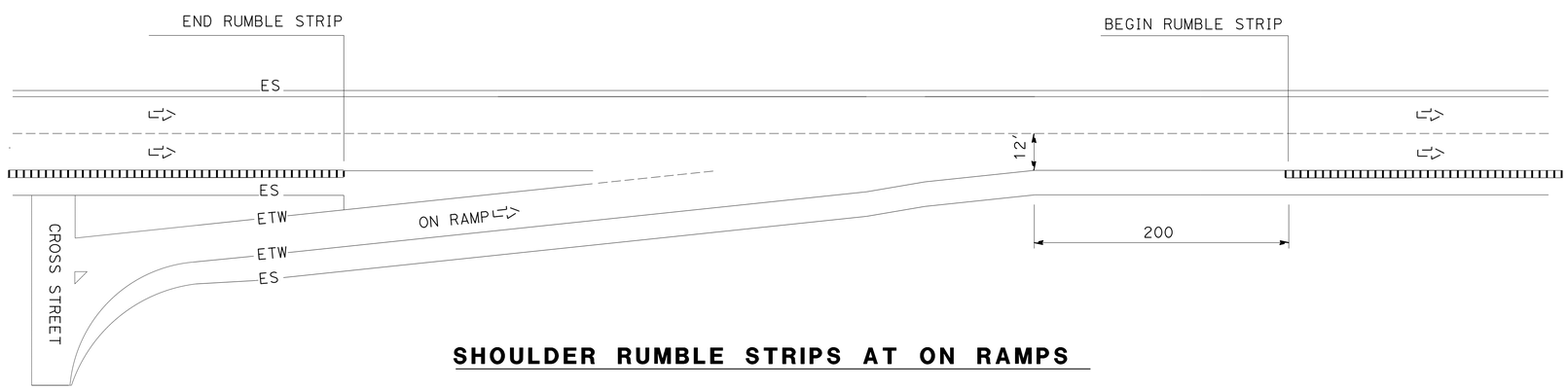
NOTES:
1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
2. SEE SHEET C-6 FOR INDIVIDUAL ON AND OFF RAMP BY LOCATION NUMBER, COUNTY, ROUTE, POST MILE AND ROAD NAME.
3. THE GAP LENGTHS IN SHOULDER GROUND-IN RUMBLE STRIPS SHOWN ON THE ON RAMP AND OFF RAMP LAYOUTS BELOW HAVE NOT BEEN CALCULATED.
4. THE SHOULDER GROUND-IN RUMBLE STRIP QUANTITIES SHOWN ON Q-2 DOES NOT SUBTRACT OUT FOR THE GAP LENGTHS FOR THE VARIOUS ON AND OFF RAMPS.
5. DO NOT PLACE RUMBLE STRIPS ALONG THE AUXILIARY LANES APPROACHING OR DEPARTING THE ON AND OFF RAMPS.



SHOULDER RUMBLE STRIPS AT OFF RAMPS



SHOULDER RUMBLE STRIPS AT ON RAMPS

LEGEND

DIRECTION OF TRAVEL

RUMBLE STRIP (GROUND-IN)

CONSTRUCTION DETAILS

NO SCALE

C-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC SAFETY

FUNCTIONAL SUPERVISOR: MIKE HAGEN
CALCULATED-DESIGNED BY: DENNIS CORCORAN
CHECKED BY: MIKE HAGEN
REVISED BY
DATE REVISED

LAST REVISION 05-12-14
DATE PLOTTED => 12-MAY-2014
TIME PLOTTED => 15:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla,etc	16,20,49, 50,70,etc.	Var	7	24

Dennis G. Corcoran 5-12-14
REGISTERED CIVIL ENGINEER DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
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No. 59438
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

ON RAMP LOCATIONS

LOCATION NUMBER	COUNTY	ROUTE	POST MILE	ROAD NAME	DIRECTION
2	BUT	99	23.69	PENTZ-DURHAM ROAD	SB
2	BUT	99	24.14	PENTZ-DURHAM ROAD	NB
6	ED	50	0.69	EL DORADO HILLS BLVD	WB
6	ED	50	1.04	LATROBE ROAD	EB
6	ED	50	R3.06	BASS LAKE ROAD	WB
6	ED	50	R3.11	BASS LAKE ROAD	EB
7	ED	50	19.34	SCHNELL SCHOOL ROAD	EB
7	ED	50	20.19	POINT VIEW DRIVE	WB
7	ED	50	20.53	POINT VIEW DRIVE	EB
7	ED	50	20.86	NEWTOWN ROAD	EB
10	PLA	50	4.50	ON RAMP FROM SR 65	EB
10	PLA	50	5.93	ROCKLIN ROAD	WB
10	PLA	80	6.27	ROCKLIN ROAD	EB
10	PLA	80	7.34	SIERAA COLLEGE BLVD	EB
10	PLA	80	7.51	SIERAA COLLEGE BLVD	WB
10	PLA	80	8.57	HORSESHOE BAR ROAD	WB
10	PLA	80	8.85	HORSESHOE BAR ROAD	EB
10	PLA	80	10.26	PENRYN ROAD	EB
10	PLA	80	10.44	PENRYN ROAD	WB
10	PLA	80	13.67	NEWCASTLE ROAD	WB
10	PLA	80	13.78	NEWCASTLE ROAD	EB
11	SAC	50	12.65	SB SUNRISE BLVD	EB
11	SAC	50	15.59	SB HAZEL AVE	WB
11	SAC	50	15.81	NB HAZEL AVE	WB
11	SAC	50	15.97	NB HAZEL AVE	EB
11	SAC	50	16.80	FOLSOM BLVD	WB
11	SAC	50	16.91	FOLSOM BLVD	EB
11	SAC	50	19.00	SB PRAIRIE CITY BLVD	WB
11	SAC	50	19.26	NB PRAIRIE CITY BLVD	WB
11	SAC	50	19.34	NB PRAIRIE CITY BLVD	EB
11	SAC	50	19.58	SB PRAIRIE CITY BLVD	EB
11	SAC	50	21.30	SB BIDWELL ROAD	WB
11	SAC	50	21.44	SB BIDWELL ROAD	EB
11	SAC	50	21.57	NB BIDWELL ROAD	WB
11	SAC	50	21.68	NB BIDWELL ROAD	EB
12	SUT	70	3.85	EB E NICOLAUS AVENUE	WB
12	SUT	70	3.90	E NICOLAUS AVENUE (LOOP)	EB
12	SUT	70	3.91	E NICOLAUS AVENUE (LOOP)	WB
12	SUT	70	4.10	WB E NICOLAUS AVENUE	EB
15	SUT	99	R31.17	QUEENS AVENUE	SB
15	SUT	99	R31.43	QUEENS AVENUE	NB
15	SUT	99	R33.89	EB EAGER ROAD	SB
15	SUT	99	R33.90	EB EAGER ROAD	NB
15	SUT	99	R34.00	WB EAGER ROAD	SB
15	SUT	99	R34.01	WB EAGER ROAD	NB
17	YUB	70	R3.40	PLUMAS LAKE BLVD	WB
17	YUB	70	R3.41	PLUMAS LAKE BLVD	EB
17	YUB	70	R7.08	MCGOWEN ROAD	WB
17	YUB	70	R7.60	MCGOWEN ROAD	EB

OFF RAMP LOCATIONS

LOCATION NUMBER	COUNTY	ROUTE	POST MILE	ROAD NAME	DIRECTION
2	BUT	99	23.61	PENTZ-DURHAM ROAD	NB
2	BUT	99	24.13	PENTZ-DURHAM ROAD	SB
2	BUT	99	30.32	SKYWAY DRIVE	NB
6	ED	50	0.83	LATROBE ROAD	EB
6	ED	50	1.05	EL DORADO HILLS BLVD	WB
6	ED	50	R3.15	BASS LAKE ROAD	EB
6	ED	50	R3.41	BASS LAKE ROAD	WB
7	ED	50	19.35	SCHNELL SCHOOL ROAD	WB
7	ED	50	20.15	POINT VIEW DRIVE	EB
7	ED	50	20.49	POINT VIEW DRIVE	WB
7	ED	50	20.84	NEWTOWN ROAD	WB
10	PLA	80	4.32	OFF RAMP TO SR 65	WB
10	PLA	80	5.95	ROCKLIN ROAD	EB
10	PLA	80	6.21	ROCKLIN ROAD	WB
10	PLA	80	7.25	SIERRA COLLEGE BLVD	EB
10	PLA	80	7.61	SIERRA COLLEGE BLVD	WB
10	PLA	80	8.67	HORSESHOE BAR ROAD	WB
10	PLA	80	8.77	HORSESHOE BAR ROAD	EB
10	PLA	80	10.17	PENRYN ROAD	EB
10	PLA	80	10.53	PENRYN ROAD	WB
10	PLA	80	13.69	NEWCASTLE ROAD	EB
10	PLA	80	13.89	NEWCASTLE ROAD	WB
11	SAC	50	15.57	HAZEL AVE	EB
11	SAC	50	16.02	HAZEL AVE	WB
11	SAC	50	16.08	AEROJET ROAD	EB
11	SAC	50	16.73	FOLSOM BLVD	EB
11	SAC	50	16.97	FOLSOM BLVD	WB
11	SAC	50	19.05	PRAIRIE CITY BLVD	EB
11	SAC	50	19.51	PRAIRIE CITY BLVD	WB
11	SAC	50	21.20	BIDWELL ROAD	EB
11	SAC	50	21.72	BIDWELL ROAD	WB
12	SUT	70	3.80	E NICOLAUS AVENUE	EB
12	SUT	70	4.15	E NICOLAUS AVENUE	WB
15	SUT	99	R31.15	QUEENS AVENUE	NB
15	SUT	99	R31.54	QUEENS AVENUE	SB
15	SUT	99	R33.73	EAGER ROAD	NB
15	SUT	99	R34.17	EAGER ROAD	SB
17	YUB	70	R3.30	PLUMAS LAKE BLVD	EB
17	YUB	70	R7.07	MCGOWEN ROAD	EB
17	YUB	70	R7.59	MCGOWEN ROAD	WB

CONSTRUCTION DETAILS

C-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC SAFETY

FUNCTIONAL SUPERVISOR: MIKE HAGEN
CALCULATED-DESIGNED BY: DENNIS CORCORAN
CHECKED BY: MIKE HAGEN
REVISED BY
DATE REVISED

LAST REVISION 05-12-14
DATE PLOTTED => 12-MAY-2014
TIME PLOTTED => 15:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED, Nev,Pla, *etc.*	16,20,49 50,70, *etc.*	Var	8	24

Kris M. Albers 5-12-14
REGISTERED CIVIL ENGINEER DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KRIS M. ALBERS
No. 49986
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

LOCATION NUMBER	COUNTY AND ROUTE	SIGN LOCATION					SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
		DESCRIPTION	FACING TRAFFIC									
			NB	SB	EB	WB	FEDERAL	CALIFORNIA				
5	Col-20	PM 34.83			1		W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		PM 34.93			1			C40(Mod)	48" x 36"	TRAFFIC FINES DOUBLED IN WORK ZONES	1 - 4" x 6"	1
		PM 34.93				1	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		PM 36.57			1		G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		PM 36.57				1		C40(Mod)	48" x 36"	TRAFFIC FINES DOUBLED IN WORK ZONES	1 - 4" x 6"	1
		PM 36.68				1	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
16	Yol-16	PM 19.33			1		G20-1[Spec](8)		60" x 30"	ROAD WORK NEXT 8 MILES	2 - 4" x 4"	1
		PM 19.43			1			C40(Mod)	48" x 36"	TRAFFIC FINES DOUBLED IN WORK ZONES	1 - 4" x 6"	1
		PM 19.43				1	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		ROAD 78A	1				W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		ROAD 85		1			W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		ROAD 85B	1				W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		PARKER STREET	1				W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		PM 27.40			1		G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		PM 27.40				1		C40(Mod)	48" x 36"	TRAFFIC FINES DOUBLED IN WORK ZONES	1 - 4" x 6"	1
		PM 27.45				1	G20-1[Spec](8)		60" x 30"	ROAD WORK NEXT 8 MILES	2 - 4" x 4"	1
		PM 28.19			1		G20-1[Spec](3)		60" x 30"	ROAD WORK NEXT 3 MILES	2 - 4" x 4"	1
		PM 28.22			1			C40(Mod)	48" x 36"	TRAFFIC FINES DOUBLED IN WORK ZONES	1 - 4" x 6"	1
		PM 28.23				1	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		ROAD 21A			1		W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		ROAD 21A				1	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		ROAD 86A	1				W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		TUTT STREET	1				W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		ROAD 89	1				W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		PM 31.55			1		G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		PM 31.55				1		C40(Mod)	48" x 36"	TRAFFIC FINES DOUBLED IN WORK ZONES	1 - 4" x 6"	1
		PM 31.62				1	G20-1[Spec](3)		60" x 30"	ROAD WORK NEXT 3 MILES	2 - 4" x 4"	1

NOTE:
EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.

CONSTRUCTION AREA SIGNS

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

REVISED BY | DATE REVISED
JACK KEMMERLY | KRIS ALBERS
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | SERGIO ACEVES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION 05-08-14 | DATE PLOTTED => 12-MAY-2014 | TIME PLOTTED => 15:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED, Nev,Pla, *etc.*	16,20,49 50,70, *etc.*	Var	9	24

Kris M. Albers 5-12-14
REGISTERED CIVIL ENGINEER DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KRIS M. ALBERS
No. 49986
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

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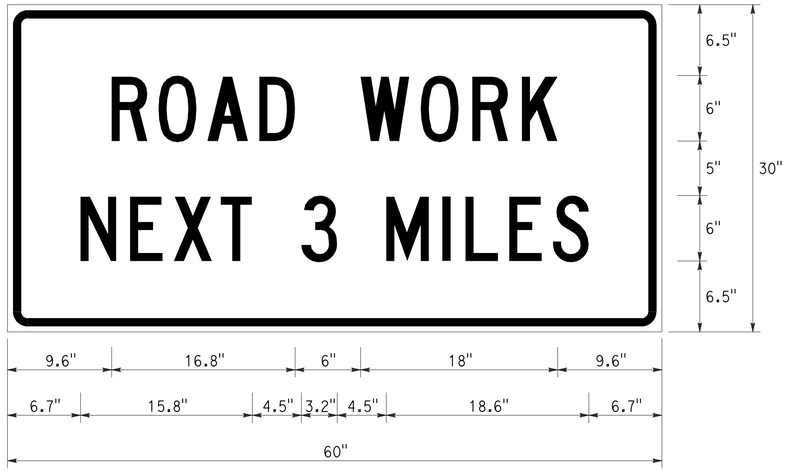
G20-1(Spec)(3)
Loc 16 - PM 28.19 FEBT
Loc 16 - PM 31.62 FWBT

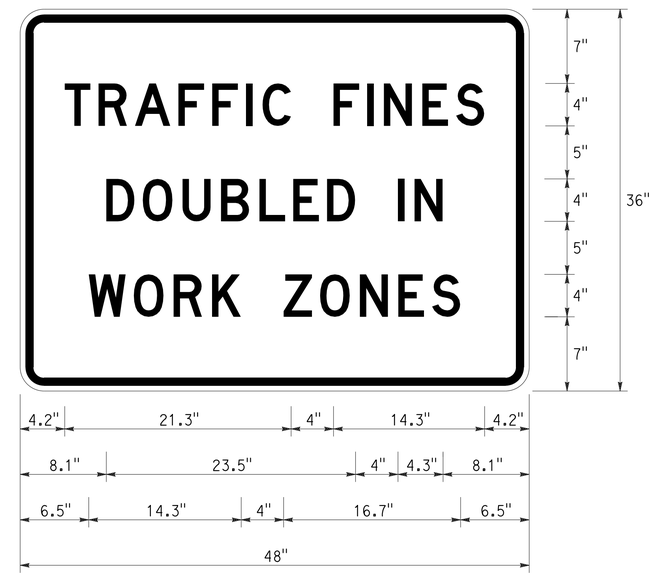


¾" BORDER WITH 2 " RADIUS and ½" INDENT

REFLECTIVE ORANGE BACKGROUND
WITH BLACK LEGEND AND BORDER

"ROAD WORK" C
"NEXT 3 MILES" C

C40(Mod)<CA>
Loc 5 - PM 34.93 FEBT
Loc 5 - PM 36.57 FWBT
Loc 16 - PM 19.43 FEBT
Loc 16 - PM 27.40 FWBT
Loc 16 - PM 28.22 FEBT
Loc 16 - PM 31.55 FWBT

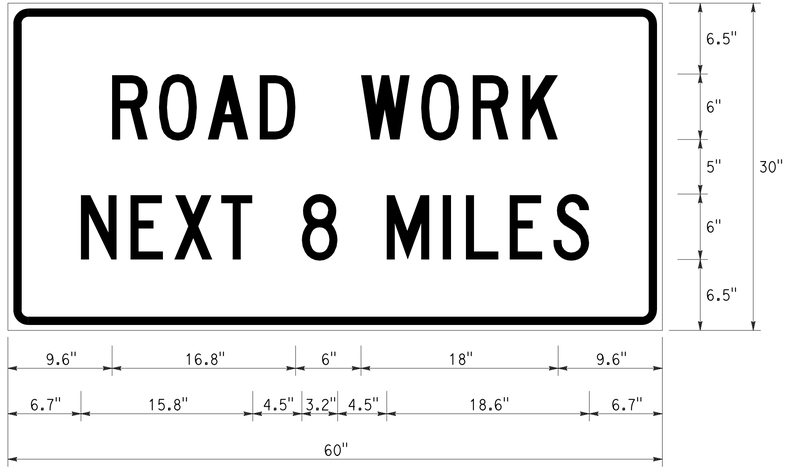


¾" BORDER WITH 2¼" RADIUS and ½" INDENT

RETROREFLECTIVE WHITE BACKGROUND
WITH BLACK LEGEND AND BORDER

"TRAFFIC FINES" D
"DOUBLED IN" D
"WORK ZONES" D

G20-1(Spec)(8)
Loc 16 - PM 19.33 FEBT
Loc 16 - PM 27.45 FWBT



¾" BORDER WITH 2 " RADIUS and ½" INDENT

REFLECTIVE ORANGE BACKGROUND
WITH BLACK LEGEND AND BORDER

"ROAD WORK" C
"NEXT 8 MILES" C

CONSTRUCTION AREA SIGNS

SIGN DETAILS

CS-2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: SERGIO ACEVES
CALCULATED-DESIGNED BY: JACK KEMMERLY
CHECKED BY: KRIS ALBERS
REVISED BY
DATE REVISED

LAST REVISION 05-08-14
DATE PLOTTED => 12-MAY-2014
TIME PLOTTED => 15:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED, Nev,Pla, etc.	16,20,49 50,70, etc.	Var	10	24

Kris M. Albers 5-12-14
REGISTERED CIVIL ENGINEER DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KRIS M. ALBERS
No. 49986
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

LOCATION No.	COUNTY AND ROUTE	POSTMILE		DIRECTION	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)			4" THERMOPLASTIC TRAFFIC STRIPE					4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)		PAVEMENT MARKER (NON-REFLECTIVE) (SEE NOTE 1)	PAVEMENT MARKER (RETROREFLECTIVE)		PAVEMENT MARKER (RETROREFLECTIVE - RECESSED) (SEE NOTE 2)
		FROM	TO		DETAIL 6	DETAIL 19	DETAIL 22	DETAIL 19	DETAIL 22	DETAIL 25	DETAIL 27B	DETAIL 29	DETAIL 6	DETAIL 19	TYPE B	TYPE D	TYPE H	TYPE H
					LINEAR FOOT			LINEAR FOOT					LINEAR FOOT		EACH	EACH		EACH
1	But-70	17.00	22.00	EB,WB						52,800	52,800						1,100	
2	But-99	21.30	30.30	NB						47,520	47,520						990	
		21.30	24.50	SB						16,896	16,896						352	
3	But-99	R37.20	T37.70	NB						2,640	2,640						55	
		R37.20	T37.70	SB							2,640							
4	But-149	0.00	R5.00	NB,SB						52,800	52,800						1,100	
5	Col-20	35.00	36.50	EB,WB							15,840							
6	ED-50	0.00	R3.50	EB,WB						36,960	36,960						770	
7	ED-50	19.30	20.90	EB,WB						16,896	16,896							352
		20.90	24.05	EB,WB							19,536							
8	Nev-49	0.00	2.20	NB,SB							23,232							
9	Pla-49	7.40	11.40	NB,SB							42,240							
10	Pla-80	4.20	14.00	EB,WB						103,488	103,488						2,156	
11	Sac-50	12.80	23.10	EB,WB						108,768	108,768						2,266	
12	Sut-70	0.34	8.08	EB						40,867	40,867						852	
		0.90	8.08	WB						37,910	37,910						790	
13	Sut-99	8.42	13.60	NB,SB					17,452	5,560	37,352					728	116	
14	Sut-99	13.60	20.53	NB,SB					67,164		131,578	10,560				3,018		
15	Sut-99	T30.73	T35.00	NB,SB						45,092	45,092						940	
16	Yol-16	19.50	25.27		1,135	10,098	35,692	8,078	35,692				4,541	8,078	36	1,752	338	
		25.84	27.35		515	3,169	6,758	2,535	6,758				2,059	2,535		378	106	
		28.45	31.50		2,918	2,839	4,330	2,271	4,330				11,670	2,271		470	94	
17	Yub-70	R0.09	R9.40	EB,WB						98,314	98,314						1,870	
SUBTOTAL					4,568	16,106	46,780	12,884	131,396	666,511	933,369	10,560	18,270	12,884		6,346	13,895	
TOTAL					67,454			1,754,720					31,154		36	20,241		352

NOTES:

1. TYPE B = BLACK PAVEMENT MARKER (NON-REFLECTIVE).
2. INSTALL PAVEMENT MARKERS WITHIN THE EXISTING RECESSES AFTER THE EXISTING RECESSED PAVEMENT MARKERS HAVE BEEN REMOVED.

PAVEMENT DELINEATION QUANTITIES

PDQ-1

REVISED BY | DATE REVISED
JACK KEMMERLY | KRIS ALBERS
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | SERGIO ACEVES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION 05-08-14 | DATE PLOTTED => 12-MAY-2014 | TIME PLOTTED => 15:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla,etc.	16,20,49, 50,70, etc.	Var	11	24

Dennis G. Corcoran 5-12-14
REGISTERED CIVIL ENGINEER DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DENNIS CORCORAN
No. 59438
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

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NOTES:

1. CALCULATIONS IN THE QUANTITY TABLE WERE BASED ON AN AVERAGE SHOULDER WIDTH 2.5 FEET.

ROADWAY QUANTITIES (RUMBLE STRIPS AND STRIPES) LOCATIONS 1 THROUGH 11

LOCATION NUMBER	COUNTY	ROUTE	DIRECTION	POST MILE RANGE PM to PM	LENGTH FT	SHOULDER RUMBLE STRIP (AC, GROUND-IN INDENTATIONS) INSIDE STA	SHOULDER RUMBLE STRIP (AC, GROUND-IN INDENTATIONS) OUTSIDE STA	SHOULDER RUMBLE STRIPE (AC, GROUND-IN INDENTATIONS) OUTSIDE STA
1	BUT	70	EB	17.00 - 22.00	26,400	264.00	264.00	
1	BUT	70	WB	17.00 - 22.00	26,400	264.00	264.00	
2	BUT	99	NB	21.30 - 24.50	16,896	168.96	168.96	
2	BUT	99	SB	21.30 - 24.50	16,896	168.96	168.96	
2	BUT	99	NB	24.50 - 31.30	35,904	359.04	359.04	
2	BUT	99	SB	24.50 - 31.30	35,904			
3	BUT	99	NB	R37.20 - T37.7	2,640	26.40	26.40	
3	BUT	99	SB	R37.20 - T37.7	2,640		26.40	
4	BUT	149	NB	R0.00 - R5.0	26,400	264.00	264.00	
4	BUT	149	SB	R0.00 - R5.0	26,400	264.00	264.00	
5	COL	20	EB	35.00 - 36.50	7,920			79.20
5	COL	20	WB	35.00 - 36.50	7,920			79.20
6	ED	50	EB	0.00 - R3.50	18,480	184.80	184.80	
6	ED	50	WB	0.00 - R3.50	18,480	184.80	184.80	
7	ED	50	EB	19.30 - 20.90	8,448	84.48	84.48	
7	ED	50	WB	19.30 - 20.90	8,448	84.48	84.48	
7	ED	50	EB	20.90 - 21.30	2,112		21.12	
7	ED	50	WB	20.90 - 21.30	2,112		21.12	
7	ED	50	EB	22.60 - 24.05	7,656		76.56	
7	ED	50	WB	22.60 - 24.05	7,656		76.56	
8	NEV	49	NB	0.00 - 2.20	11,616		116.16	
8	NEV	49	SB	0.00 - 2.20	11,616		116.16	
9	PLA	49	NB	7.40 - 11.40	21,120		211.20	
9	PLA	49	SB	7.40 - 11.40	21,120		211.20	
10	PLA	80	EB	4.20 - 14.00	51,744	517.44	517.44	
10	PLA	80	WB	4.20 - 14.00	51,744	517.44	517.44	
11	SAC	50	EB	12.80 - 23.10	54,384	543.84	543.84	
11	SAC	50	WB	12.80 - 23.10	54,384	543.84	543.84	
SUBTOTAL						4440.48	5316.96	158.40

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

ROADWAY QUANTITIES (PAVING ITEMS) LOCATION 5

LOCATION NUMBER	COUNTY	ROUTE	DIRECTION	POST MILE RANGE	COLD PLANE AC Pvmt (0.10' Max) SQYD	HOT MIX ASPHALT (OPEN GRADED) TON	TACK COAT TON
5	COL	20	EB	35.00 - 36.50	2200	220	1.5
5	COL	20	WB	35.00 - 36.50	2200	220	1.5
				TOTAL	4400	440	3.0

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC SAFETY

FUNCTIONAL SUPERVISOR: MIKE HAGEN
CALCULATED-DESIGNED BY: DENNIS CORCORAN
CHECKED BY: MIKE HAGEN
REVISED BY
DATE REVISED

LAST REVISION 05-12-14 | DATE PLOTTED => 12-MAY-2014 | TIME PLOTTED => 15:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla,*etc.*	16,20,49, 50,70,*etc.*	Var	12	24

Dennis G. Corcoran 5-12-14
REGISTERED CIVIL ENGINEER DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DENNIS CORCORAN
No. 59438
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STATE OF CALIFORNIA

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ROADWAY QUANTITIES (RUMBLE STRIPS)
LOCATIONS 12 THROUGH 17

LOCATION NUMBER	COUNTY	ROUTE	DIRECTION	POST MILE RANGE	LENGTH (N)	SHOULDER RUMBLE STRIP (AC, GROUND-IN INDENTATIONS) INSIDE	SHOULDER RUMBLE STRIP (AC, GROUND-IN INDENTATIONS) OUTSIDE	CENTERLINE RUMBLE STRIP (AC, GROUND-IN INDENTATIONS)	SHOULDER RUMBLE STRIPE (AC, GROUND-IN INDENTATIONS) OUTSIDE
				PM to PM	FT	STA	STA	STA	STA
12	SUT	70	EB	0.34 - 8.08	40,867	408.67	408.67		
12	SUT	70	WB	0.90 - 8.08	37,910	379.10	379.10		
13	SUT	99	NB	8.42 - 9.20	4,118		41.18		
13	SUT	99	NB	8.75 - 9.11	1,901	19.01			
13	SUT	99	SB	8.42 - 9.20	4,118		41.18		
13	SUT	99	SB	8.75 - 9.11	1,901	19.01			
13	SUT	99	NB	9.28 - 10.75	7,762		77.62		
13	SUT	99	SB	9.28 - 10.75	7,762		77.62		
13	SUT	99	NB	9.35 - 9.75	2,112	21.12			
13	SUT	99	SB	9.35 - 9.75	2,112	21.12			
13	SUT	99	NB	11.69 - 11.98	1,373	13.73	13.73		
13	SUT	99	SB	11.69 - 11.98	1,373	13.73	13.73		
13	SUT	99	NB	12.65 - 13.60	5,016		50.16		
13	SUT	99	SB	12.65 - 13.60	5,016		50.16		
13	SUT	99	NB	12.65 - 12.98	1,742	17.42			
13	SUT	99	SB	12.65 - 12.98	1,742	17.42			
14	SUT	99	NB	13.60 - 14.66	5,597		55.97		
14	SUT	99	SB	13.60 - 14.66	5,597		55.97		
14	SUT	99	NB	14.70 - 26.10	60,192		601.92		
14	SUT	99	SB	14.70 - 26.10	60,192		601.92		
14	SUT	99	NB	14.79 - 15.07	1,478	14.78			
14	SUT	99	SB	14.79 - 15.07	1,478	14.78			
14	SUT	99	NB	16.26 - 16.48	1,162	11.62			
14	SUT	99	SB	16.26 - 16.48	1,162	11.62			
14	SUT	99	NB	17.12 - 17.64	2,746	27.46			
14	SUT	99	SB	17.12 - 17.64	2,746	27.46			
14	SUT	99	NB	17.87 - 20.01	11,299	112.99			
14	SUT	99	SB	17.87 - 20.01	11,299	112.99			
14	SUT	99	NB	20.01 - 20.53	2,746	27.46			
14	SUT	99	SB	20.01 - 20.53	2,746	27.46			
15	SUT	99	NB	T30.73 - T35.00	22,545	225.45	225.45		
15	SUT	99	SB	T30.73 - T35.00	22,545	225.45	225.45		
16	YOL	16	N/A	19.50 - 25.27	30,465			304.65	
16	YOL	16	N/A	25.84 - 27.35	7,973			79.73	
16	YOL	16	N/A	28.45 - 31.50	16,104			161.04	
17	YUB	70	NB	0.09 - 9.40	49,157	491.57	491.57		
17	YUB	70	SB	0.09 - 9.40	49,157	491.57	491.57		
SUBTOTAL (Q-2)						2,752.99	3,902.97	545.42	
SUBTOTAL (Q-1)						4,440.48	5,316.96		158.40
SUB TOTAL (Q-1 & Q-2)						7,193.47	9,219.93		
OVERALL TOTAL (Q-1 & Q-2)						16,413.40		545.42	158.40
TOTAL SUBTRACTED LENGTH FOR BRIDGE OMISSIONS						154.06		0.85	0.84
TOTAL (Q-1 + Q-2 - LENGTH FOR BRIDGE OMISSIONS)						16,259.34		544.57	157.56

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES

Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC SAFETY

FUNCTIONAL SUPERVISOR: MIKE HAGEN
CALCULATED-DESIGNED BY: DENNIS CORCORAN
CHECKED BY: MIKE HAGEN
REVISED BY
DATE REVISED

LAST REVISION 05-12-14
DATE PLOTTED => 12-MAY-2014
TIME PLOTTED => 15:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla,*etc.*	16,20,49, 50,70,*etc.*	Var	13	24

Dennis G. Corcoran 5-12-14
REGISTERED CIVIL ENGINEER DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DENNIS CORCORAN
No. 59438
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. THE TOTAL OMISSION LENGTH FOR EACH BRIDGE WITHIN THE 17 LOCATIONS HAS BEEN IDENTIFIED IN THE TABLE ON THIS SHEET. THESE NUMERICAL VALUES HAVE BEEN SUBTRACTED FROM THE OVERALL QUANTITY TOTALS ON Q-2.

BRIDGE LOCATIONS

LOCATION NUMBER	COUNTY	ROUTE	POST MILE	BRIDGE NAME	BRIDGE NUMBER	LENGTH OF BRIDGE	TOTAL OMISSION LENGTH OF GROUND-IN RUMBLE STRIPS *	TOTAL OMISSION LENGTH OF GROUND-IN RUMBLE STRIPES *
			PM			LF	LF	LF
1	BUT	70	19.81	CAMPBELL CREEK OVERFLOW	12-145	174	348	
2	BUT	99	22.95	LITTLE DRY CREEK	12-75	95	190	
2	BUT	99	25.35	HAMLIN SLU	12-131	121	242	
2	BUT	99	26.14	NANCE CANYON	12-129	95	190	
2	BUT	99	27.84	SCRUB CREEK	12-125	21	42	
2	BUT	99	28.72	BUTTE CREEK	12-126	322	644	
2	BUT	99	30.02	EDGAR SLOUGH	12-128	80	160	
4	BUT	149	R3.25	DRY CREEK	12-70	164	328	
4	BUT	149	R3.73	CLEAR CREEK	12-73	74	148	
5	COL	20	36.02	STEER DITCH	15-18	42		84
6	ED	50	0.86	LATROBE RD	25-71	158	316	
6	ED	50	R1.65	CLARKVILLE UC	25-72	111	222	
6	ED	50	R1.90	CARSON CREEK	25-79	32	64	
7	ED	50	19.60	SMITH FLAT RD UC	25-64	216	432	
7	ED	50	20.30	ACADEMY UC	25-62	121	242	
9	PLA	49	8.09	S. FORK DRY CREEK	19-20	90	180	
9	PLA	49	9.44	N. FORK DRY CREEK	19-21	74	148	
9	PLA	49	11.40	BEAR RIVER	19-22	127	254	
10	PLA	80	6.05	ROCKLIN ROAD	19-94	95	190	
10	PLA	80	11.39	PENRYN ROAD	19-100	169	338	
11	SAC	50	12.85	FAIR OAKS	24-171	126	252	
11	SAC	50	17.00	NATOMA	24-120	369	738	
11	SAC	50	21.74	WHITE ROCK OH	24-122	158	316	
12	SUT	70	8.09	BEAR RIVER	18-1	1109	2218	
13	SUT	99	12.03	FEATHER RIVER	18-26	3184	6368	
15	SUT	99	30.80	BUTTE HOUSE ROAD OC	18-33	121	242	
16	YOL	16	25.15	CAPAY CANAL	22-27	85	85	
17	YUB	70	R3.75	ALGODON ROAD	16-40	106	212	
17	YUB	70	R3.96	PLUMAS-ARBOGA ROAD	16-39	191	382	
				TOTALS			15,491	84

* FOR TOTAL QUANTITIES, SEE SUMMARY OF QUANTITIES SHEET Q-2.

SUMMARY OF QUANTITIES

Q-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC SAFETY

CALCULATED-DESIGNED BY DENNIS COROCRAN
CHECKED BY MIKE HAGEN
FUNCTIONAL SUPERVISOR MIKE HAGEN
REVISED BY
DATE REVISED

LAST REVISION 05-12-14
DATE PLOTTED => 12-MAY-2014
TIME PLOTTED => 15:06

M

Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED,
	MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EMBANKMENT
Mt	MOUNTAIN, MOUNT
Mtl	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

N

N	NORTH
NB	NORTHBOUND
No.	NUMBER (MUST HAVE PERIOD)
Nos.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NSP	NEW STANDARD PLAN
NTS	NOT TO SCALE

O

Oblr	OBLITERATE
OC	OVERCROSSING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OGFC	OPEN GRADED FRICTION COURSE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
Opp	OPPOSITE
OSD	OVERSIDE DRAIN

P

p	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE,
	PRECAST
PCC	POINT OF COMPOUND CURVE,
	PORTLAND CEMENT CONCRETE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PCP	PERFORATED CONCRETE PIPE,
	PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PEC	PERMIT TO ENTER AND CONSTRUCT
Ped	PEDESTRIAN
Ped OC	PEDESTRIAN OVERCROSSING
Ped UC	PEDESTRIAN UNDERCROSSING
Perm Mtl	PERMEABLE MATERIAL

P continued

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
ℙ,PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE,
	TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE,
	PLASTIC PIPE,
	POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT

Q

Qty	QUANTITY

R

R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
Rd	ROAD
Reinf	REINFORCED,
	REINFORCEMENT,
	REINFORCING
Rel	RELOCATE
Repl	REPLACEMENT
Ret	RETAINING
Rev	REVISED, REVISION
Rdwy	ROADWAY
RHMA	RUBBERIZED HOT MIX ASPHALT
Riv	RIVER
RM	ROAD-MIXED
RP	RADIUS POINT,
	REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION,
	REVISED STANDARD PLAN
Rt	RIGHT
Rte	ROUTE
RW	REDWOOD,
	RETAINING WALL
R/W	RIGHT OF WAY
Rwy	RAILWAY

S

S	SOUTH,
	SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND,
	SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
℄	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL,
	SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK,
	SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES

T

T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
Tel	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

T continued

TS	TRANSVERSE,
	TRAFFIC SIGNAL,
	TUBULAR STEEL
Typ	TYPICAL

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS

V

V	VALVE,
	DESIGN SPEED
Var	VARIABLE,
	VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME

W

W	WEST,
	WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
Wt	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLOL	WINGWALL LAYOUT LINE

X

X Sec	CROSS SECTION
Xing	CROSSING

Y

Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla, etc.	16,20,49 50,70, etc.	Var	14	24

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Grace M. Tsushima No. C49814 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 5-27-14

UNIT OF MEASUREMENT SYMBOLS:

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft^3, pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kip	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ABBREVIATIONS (SHEET 2 OF 2)

NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla, etc.	16,20,49 50,70, etc.	Var	15	24

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 5-27-14

2010 REVISED STANDARD PLAN RSP T9

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
					X	Y	Z **
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

* - For other offsets, use the following merging taper length formula for L:
For speed of 40 mph or less, $L = WS^2/60$
For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
W = Width of offset in feet
S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING

SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Longitudinal buffer space or flagger station spacing

*** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommmended distances.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T9

TO ACCOMPANY PLANS DATED 5-27-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla, etc.	16,20,49 50,70, etc.	Var	16	24

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

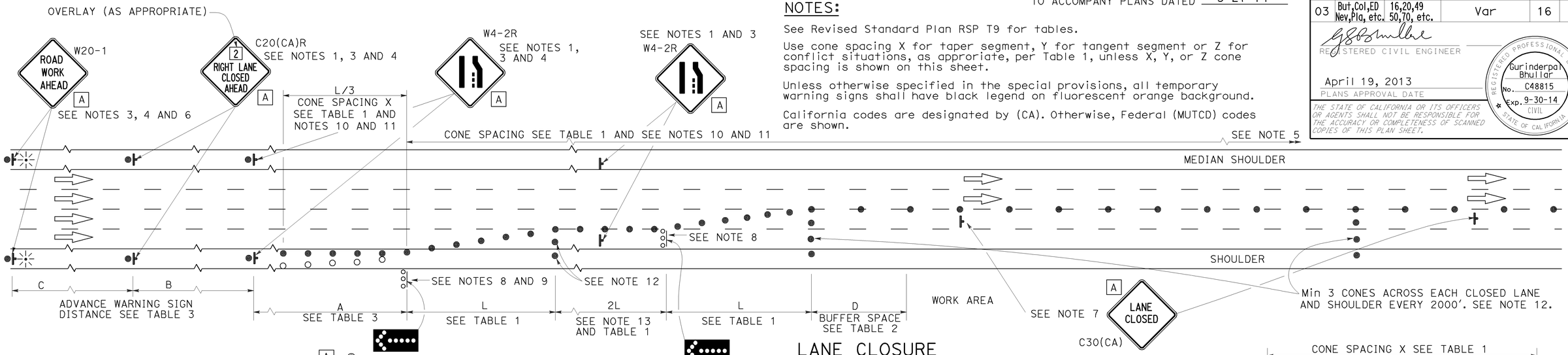
NOTES:

See Revised Standard Plan RSP T9 for tables.

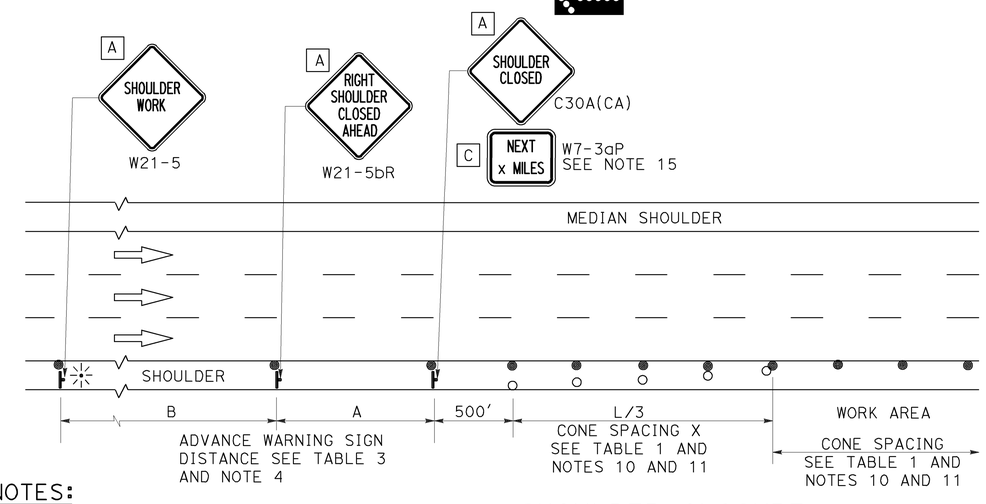
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

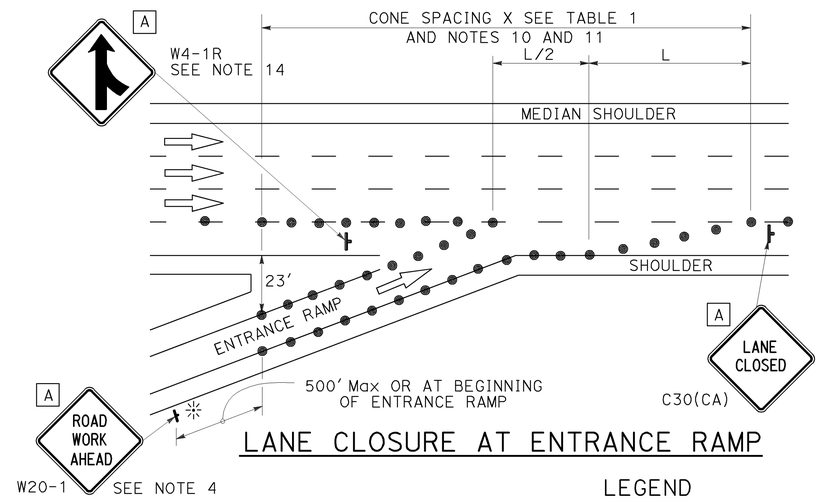
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



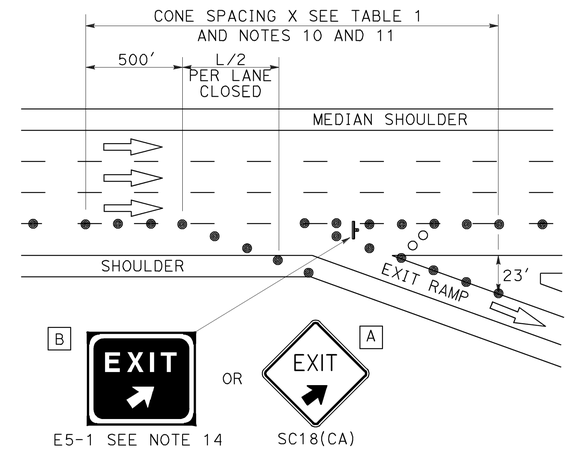
LANE CLOSURE



SHOULDER CLOSURE



LANE CLOSURE AT ENTRANCE RAMP



LANE CLOSURE AT EXIT RAMP

NOTES:

1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
   a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
   b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
5. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
7. Place a C30(CA) sign every 2000' throughout length of lane closure.
8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
15. A W7-3aP "NEXT____ MILES" plaque must be used if theshoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

A	48" x 48"
B	72" x 60"
C	36" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

12-18-12

TO ACCOMPANY PLANS DATED 5-27-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla, etc.	16,20,49 50,70, etc.	Var	17	24

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

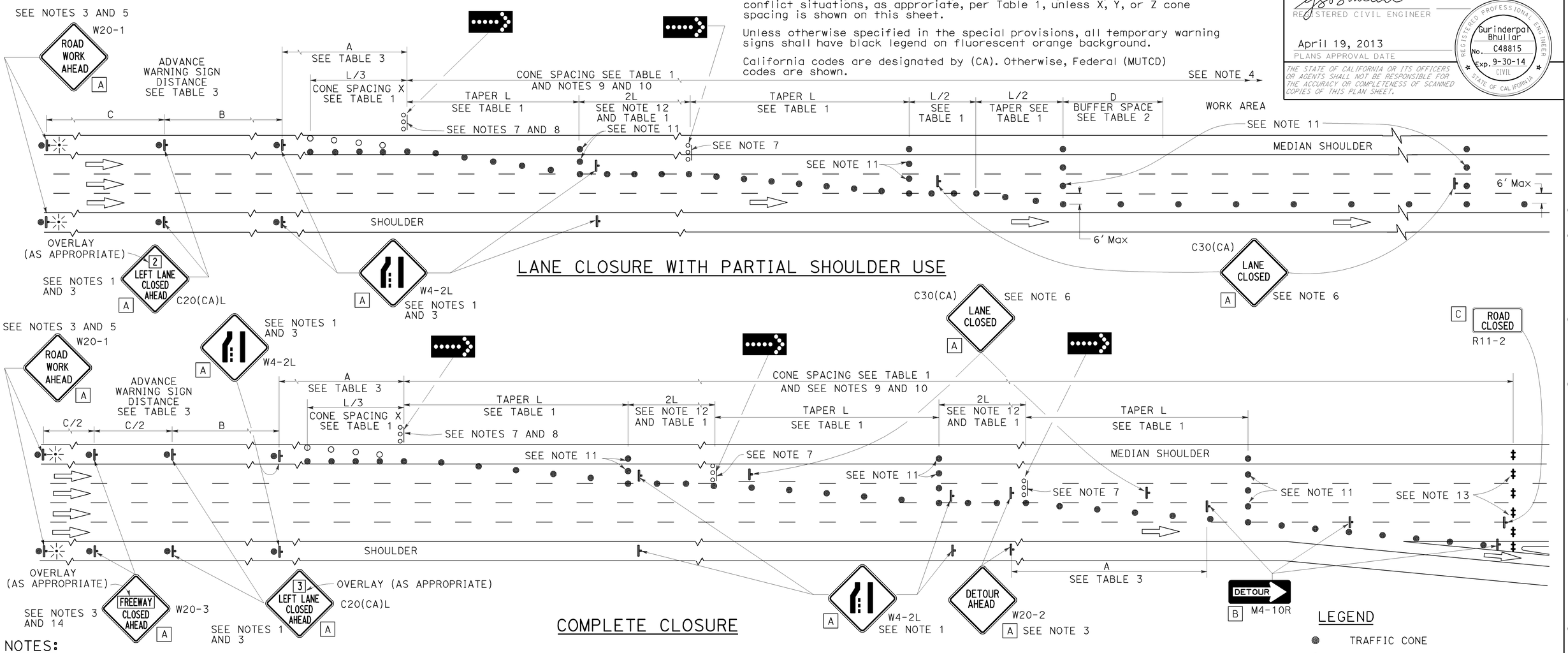
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES: See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



LANE CLOSURE WITH PARTIAL SHOULDER USE

COMPLETE CLOSURE

NOTES:

1. Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details as shown except that C20(CA)R and W4-2R signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" X 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
4. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
5. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT ___ MILES", use a C20(CA) sign for the first advance warning sign.
6. Place a C30(CA) sign every 2000' throughout length of lane closure.
7. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
8. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
9. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
10. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
11. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
12. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
13. A minimum of Two Type II or III barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
14. When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

SIGN PANEL SIZE (Min)

A	48" x 48"
B	48" x 18"
C	48" x 30"

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURES ON FREEWAYS AND EXPRESSWAYS

NO SCALE

RSP T10A DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10A DATED MAY 20, 2011 - PAGE 238 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10A

2010 REVISED STANDARD PLAN RSP T10A

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla, etc.	16,20,49 50,70, etc.	Var	18	24

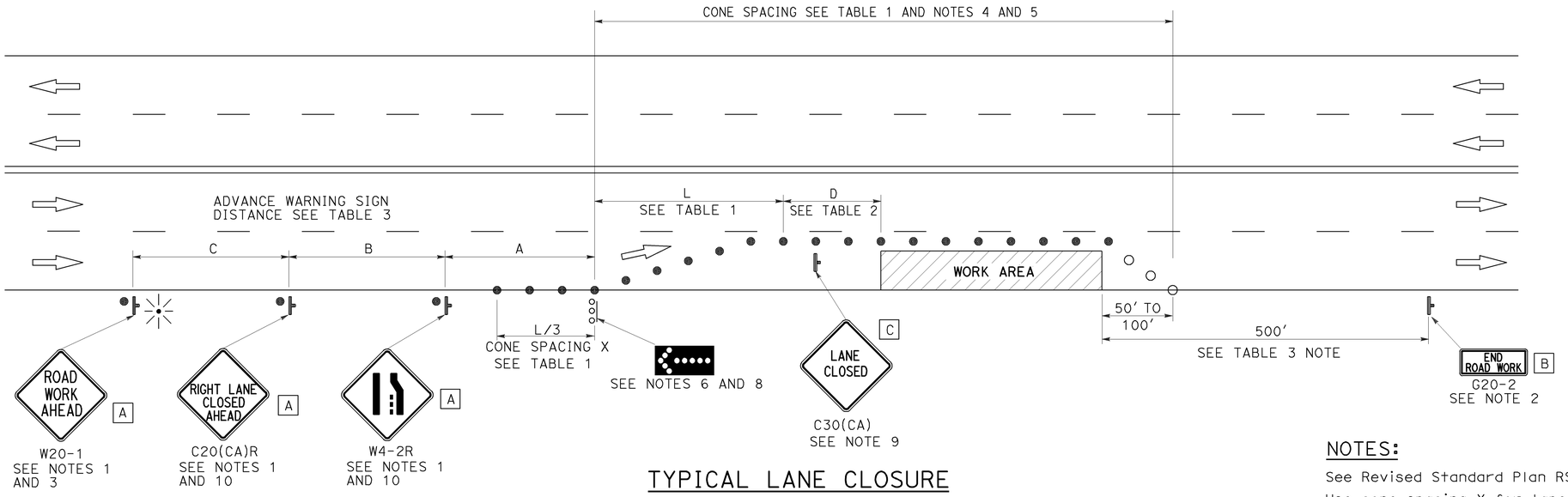
REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 5-27-14



TYPICAL LANE CLOSURE

NOTES:

See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

LEGEND

- ● TRAFFIC CONE
- ○ TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

A	48" × 48"
B	36" × 18"
C	30" × 30"

NOTES:

1. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
2. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
3. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
4. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
6. Flashing arrow sign shall be either Type I or Type II.
7. For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
8. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
9. Place a C30(CA) sign every 2000' throughout length of lane closure.
10. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
11. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

4-2-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla, etc.	16,20,49 50,70, etc.	Var	19	24

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 5-27-14

LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 24" x 24"
- C 36" x 18"

NOTES:

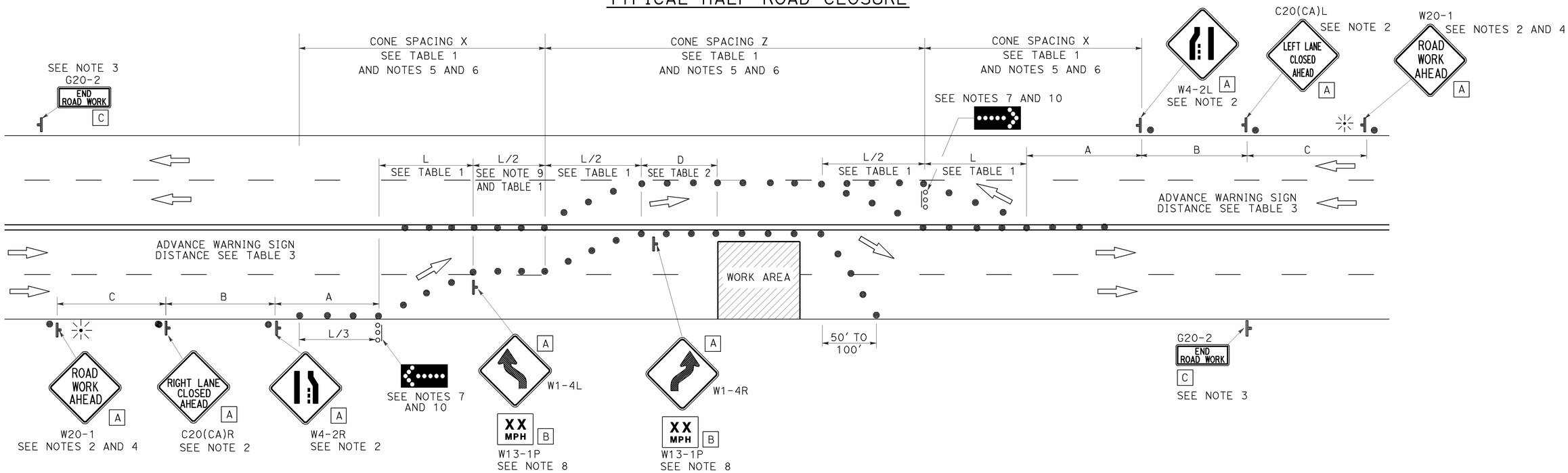
See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TYPICAL HALF ROAD CLOSURE



NOTES:

1. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.
2. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
4. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Flashing arrow signs shall be either Type I or Type II.
8. Advisory speed will be determined by the Engineer. The W13-1P Plaque will not be required when advisory speed is more than the posted or maximum speed limit.
9. Unless otherwise specified in the special provisions, the tangent (L/2) shall be used.
10. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR HALF ROAD CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS AND EXPRESSWAYS

NO SCALE

RSP T12 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T12
DATED MAY 20, 2011 - PAGE 240 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T12

2010 REVISED STANDARD PLAN RSP T12

4-2-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla, etc.	16,20,49 50,70, etc.	Var	20	24

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 5-27-14

NOTES:

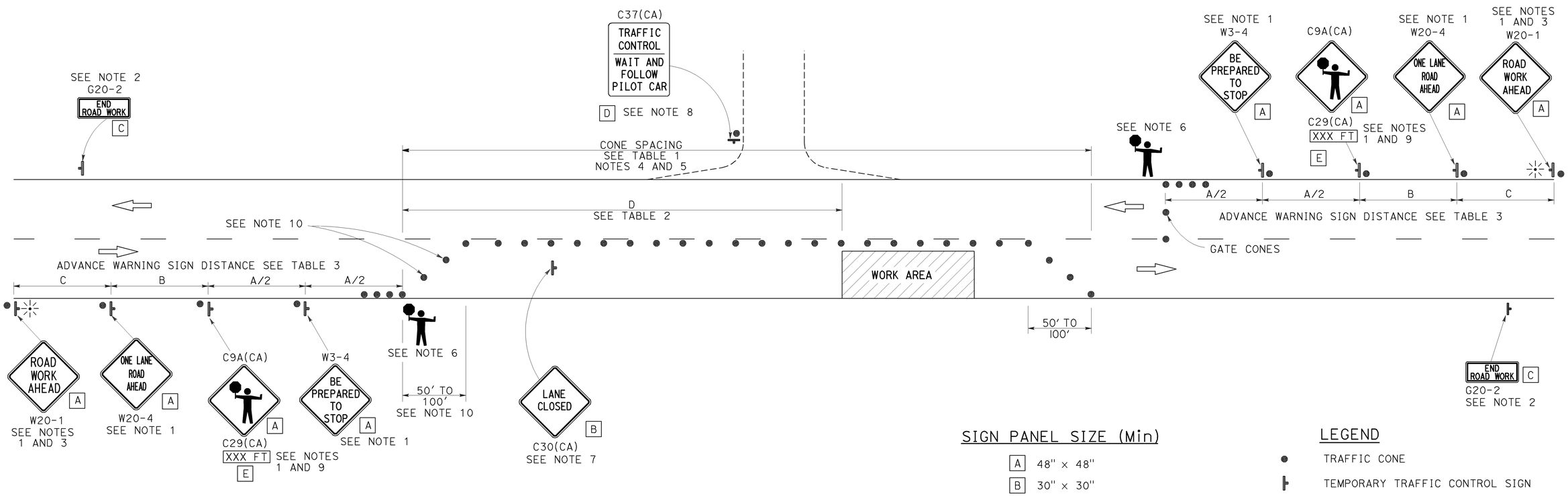
See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (Min)

A	48" × 48"
B	30" × 30"
C	36" × 18"
D	36" × 42"
E	20" × 7"

LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

NOTES:

1. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
2. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
3. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
4. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
6. Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
7. Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
8. When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
9. An optional C29(CA) sign may be placed below the C9A(CA) sign.
10. Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T13 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T13 DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

2010 REVISED STANDARD PLAN RSP T13

4-2-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla, etc.	16,20,49 50,70, etc.	Var	21	24

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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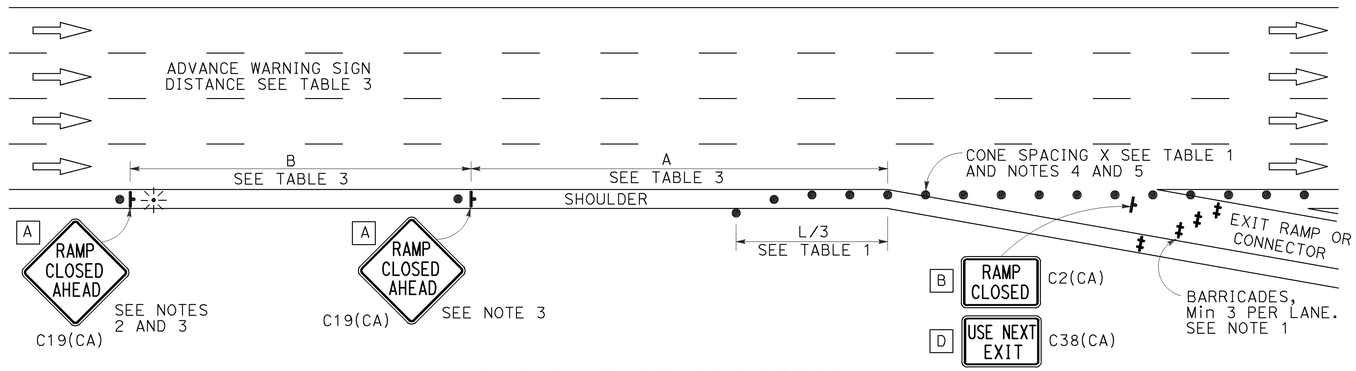
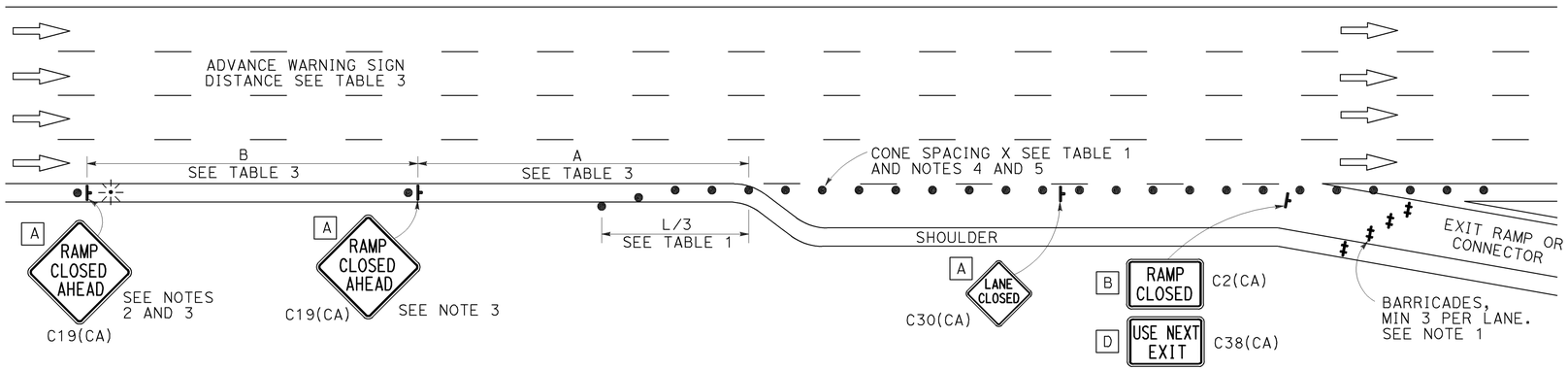
TO ACCOMPANY PLANS DATED 5-27-14

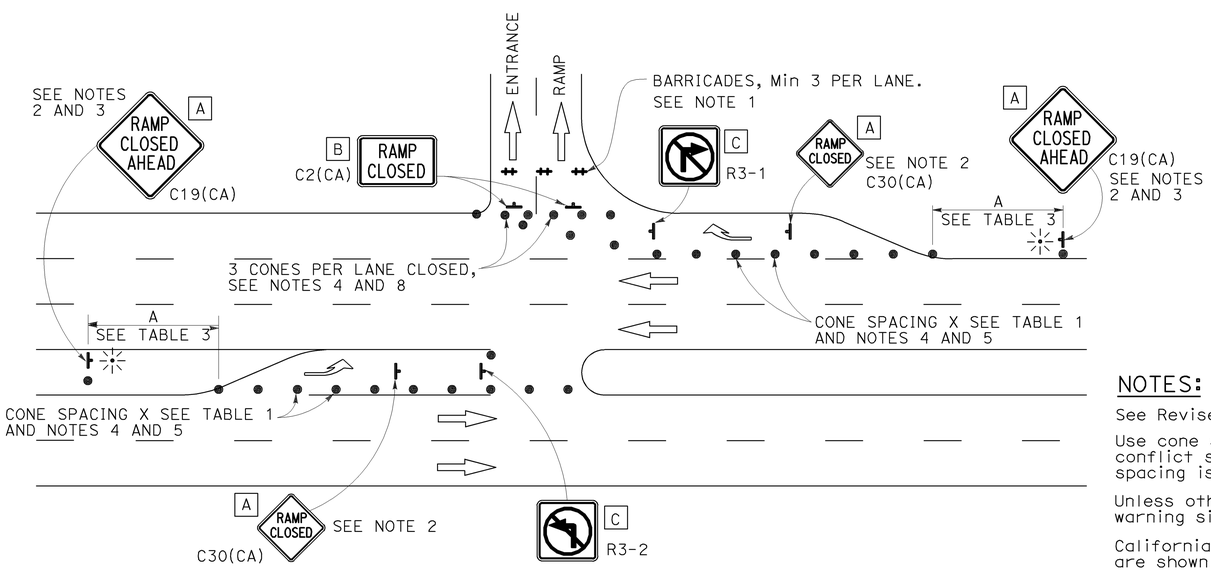
TYPICAL RAMP CLOSURES



EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS

SIGN PANEL SIZE (Min)

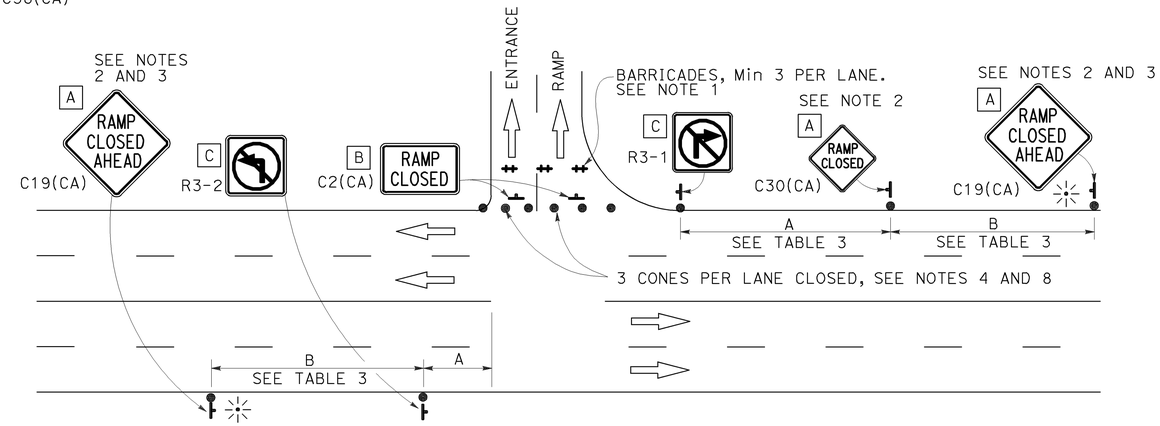
- A 48" × 48"
- B 48" × 30"
- C 36" × 36"
- D 48" × 36"

LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- BARRICADES
- PORTABLE FLASHING BEACON

NOTES:

1. Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
2. In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
3. Each advance C19(CA) "RAMP CLOSED AHEAD" sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" × 16" in size and shall be orange or fluorescent red-orange in color. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
4. All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
6. At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
7. The existing "EXIT" signs shall be covered during ramp closures.
8. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

RSP T14 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T14 DATED MAY 20, 2011 - PAGE 242 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T14

2010 REVISED STANDARD PLAN RSP T14

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla, etc.	16,20,49 50,70, etc.	Var	22	24

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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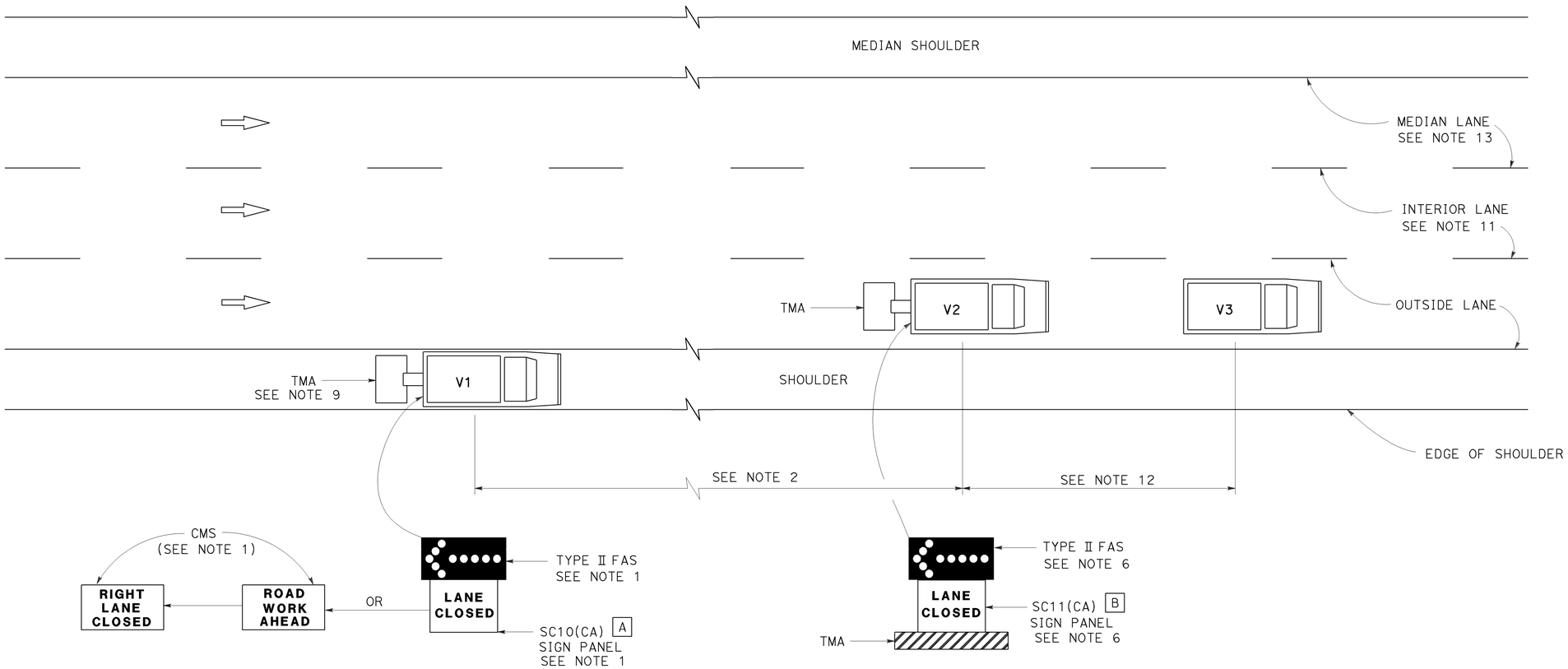
TO ACCOMPANY PLANS DATED 5-27-14



MOVING LANE CLOSURE ON MEDIAN LANE OR OUTSIDE LANE OF MULTILANE HIGHWAYS

SIGN PANEL SIZE (Min)

A 66" x 36"

B 54" x 42"

LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
	FLASHING ARROW SIGN (FAS)
CMS	CHANGEABLE MESSAGE SIGN
TMA	TRUCK-MOUNTED ATTENUATOR

NOTES:

1. Either a changeable message sign or a SC10(CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "RIGHT LANE CLOSED" message. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right and the changeable message sign shall show "LEFT LANE CLOSED".
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500′ should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500′.
5. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
10. Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11, etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on interior lane of multilane highways, use Revised Standard Plan T16.
12. The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.
13. When the work/application vehicle V3 occupies the median lane, sign vehicle V1 should drive in the median shoulder and indicate left lane closed ahead.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS

NO SCALE

RSP T15 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T15
DATED MAY 20, 2011 - PAGE 243 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T15

2010 REVISED STANDARD PLAN RSP T15

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla, etc.	16,20,49 50,70, etc.	Var	23	24

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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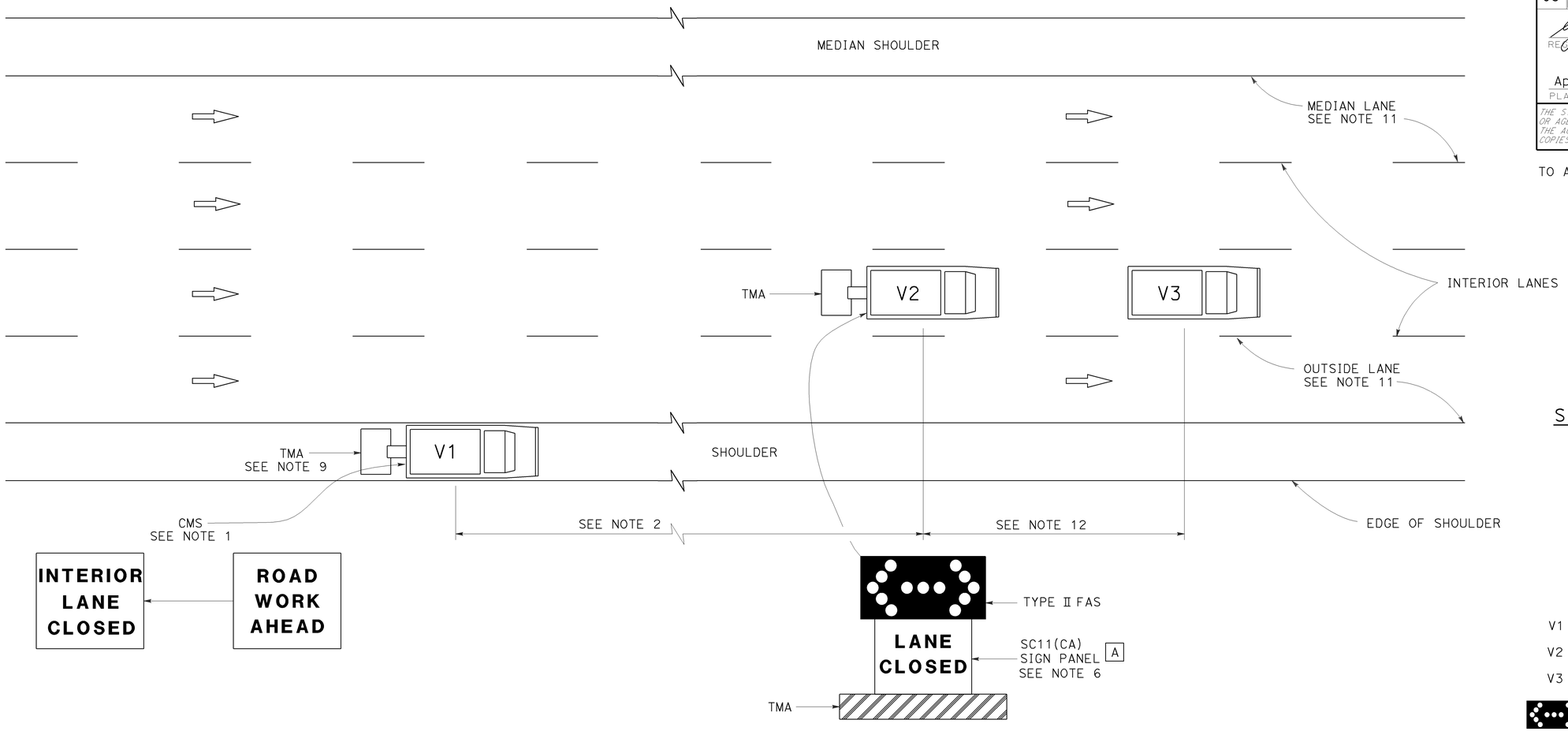
TO ACCOMPANY PLANS DATED 5-27-14

2010 REVISED STANDARD PLAN RSP T16



MOVING LANE CLOSURE ON INTERIOR LANE OF MULTILANE HIGHWAYS

SIGN PANEL SIZE (Min)

A 54" x 42"

LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
	FLASHING ARROW SIGN (FAS) IN FLASHING DOUBLE ARROW MODE
CMS	CHANGEABLE MESSAGE SIGN
TMA	TRUCK-MOUNTED ATTENUATOR

NOTES:

1. A changeable message sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "INTERIOR LANE CLOSED" message. The message "CENTER LANE CLOSED" may be used in place of the "INTERIOR LANE CLOSED" message.
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500′ should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500′.
5. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
10. Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11 etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on median lane or outside lane of multilane highways, use Revised Standard Plan T15.
12. The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS

NO SCALE

RSP T16 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T16
DATED MAY 20, 2011 - PAGE 244 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T16

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Col,ED Nev,Pla, etc.	16,20,49 50,70, etc.	Var	24	24

REGISTERED CIVIL ENGINEER

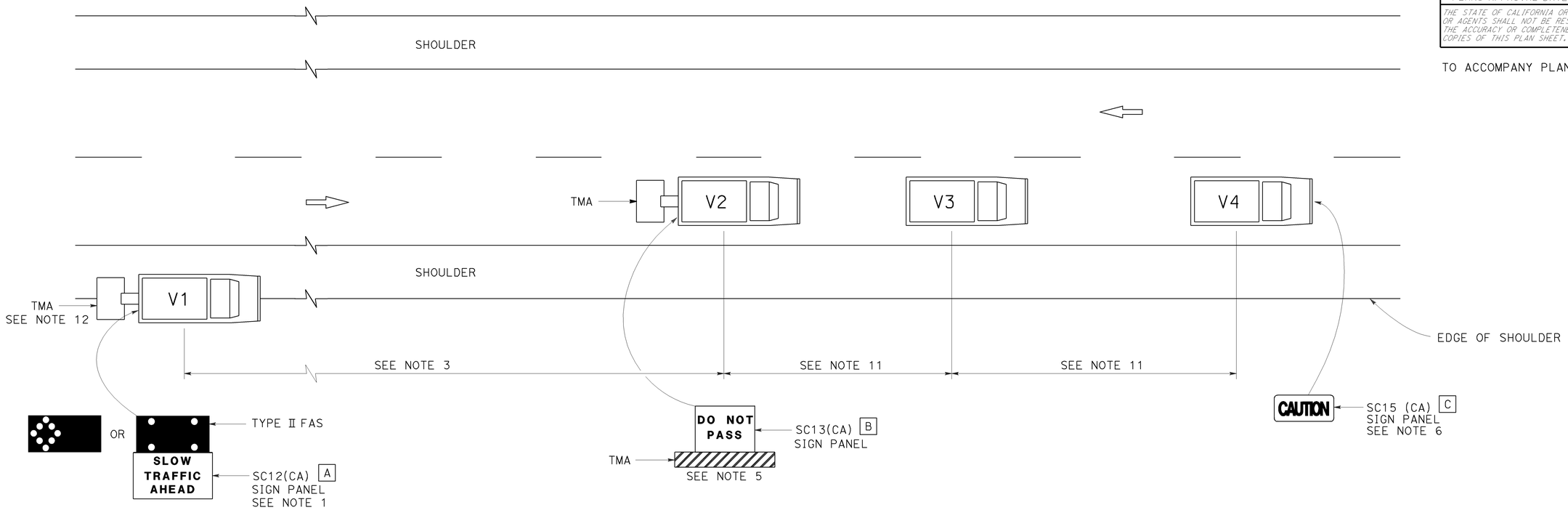
April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Gurinderpal Bhullar
No. C48815
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 5-27-14

2010 REVISED STANDARD PLAN RSP T17



LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
V4	SIGN VEHICLE
TMA	TRUCK-MOUNTED ATTENUATOR
	FLASHING ARROW SIGN (FAS) IN FLASHING CAUTION MODE
	FLASHING ARROW SIGN (FAS) IN ALTERNATING DIAMOND CAUTION

SIGN PANEL SIZE (Min)

A	72" x 42"
B	54" x 42"
C	54" x 24"

NOTES:

1. Either a changeable message sign or a SC12(CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "CAUTION" message first, follow by the "SLOW TRAFFIC AHEAD" message. A Type II flashing arrow sign may be used with the SC12(CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Shadow vehicle shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.
7. All vehicles shall be equipped with flashing or rotating amber lights.
8. Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2′ or more from the centerline of the highway during the work or application operations.
9. All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
10. This plan shall not be used where workers would be on foot in the work area. Use a stationary type lane closure (Revised Standard Plan T13) for this condition.
11. Minimize spacing between vehicles V2 and V3 and vehicles V3 and V4 to deter road users from driving in between them.
12. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON TWO LANE HIGHWAYS

NO SCALE

RSP T17 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T17
DATED MAY 20, 2011 - PAGE 245 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T17

12-18-12